

Manufacturers Record

Exponent of America



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Baltimore, Md.
JULY 27, 1922

The Greatest Issue Before Our Country.

"Duty," wrote General Robert E. Lee, "is the noblest word in the English language," but today pleasure-seeking, self-gratification, self-indulgence, law violation and disregard of duty and law are dominant in our nation to an alarming extent. Men and women who claim respectability and others in official life are violators of the nation's laws, regardless of any sense of duty, and are thus putting a premium upon the criminality of those of criminal instincts.

Why should the bank robber withhold his hand even when he commits murder in the pursuit of his game, if he knows that the bank officers or directors violate other laws? When the banker or the lawyer or the merchant or the manufacturer or the official in state or national affairs breaks one of the nation's laws, he teaches other men to violate any other law which they do not like, and thus encourages robberies and murders. In violating one law he destroys the respect for all law and plants the seed which will bring forth a disregard for all property rights and for life itself.

A saturnalia of crime will spread over any land when men of affairs wink at law violation or jest over the success for instance of the bootlegger or the bootlegger's accomplice who buys his rot gut decoctions. The bootleggers couldn't exist except for the bootleggers' criminal co-workers—the buyers and the drinkers who gloat over breaking the nation's laws.

The supreme issue at stake is the disregard of law and integrity and honesty, and the safety of business and of our Government, all of which are involved in the disregard of the sacredness of law by men who care not for duty, but who, blind to the influence which they are developing for destruction of all business, all property rights and Government itself by their law-breaking activities, go on in their mad determination to ignore duty and to put personal indulgence and personal profit above all else. The great issue before our nation is whether the Government or the criminal element of high or low social or political standing is the stronger. Upon the settlement of that issue depends our existence as a nation and our future as a land of law and order, or a land of chaos as in Russia.

If this country is to be saved it will be despite the evil work of the men of supposed social and business standing who violate its laws. It will be saved by the work of law-abiding men of all classes, who place honor to their nation above self-indulgence or profit, who are willing to sacrifice if need be their own personal desires in order to protect weaker men from ruin. The country's salvation will be due to the men who realize that if lawlessness of the criminal element is encouraged by the lawlessness of any of the supposedly respectable elements of social and business life, the time will come when the criminal element will become more powerful than the law-abiding element.

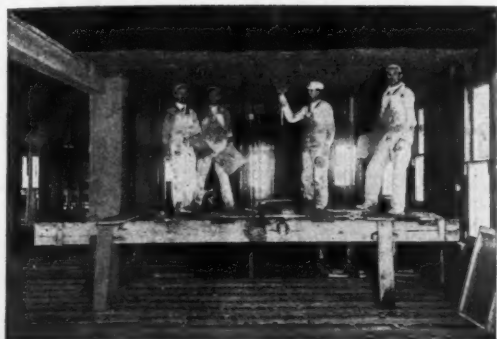
Until these facts are driven deep down into the conscience of all men, so deep that the violator of one law will be as much spurned by decent men as the violator of all laws,—for the violation of one leads inevitably to the violation of all—we shall not be safe from the danger of rampant Bolshevism which voices its belief in its openly proclaimed hatred of all laws by saying: "To hell with churches and synagogues and all governments; we are atheists; we are anarchists."

The shipping board which openly proclaims that it is selling whiskey on American ships because it is necessary to do so to enable them to make money is placing the earning of money as its supreme duty without counting the fearful cost of its example in law violation.

To American Interests contemplating Domestic or Foreign Expansion, we offer the services of an Engineering Construction Organization in touch with conditions at home and abroad, supplemented by the services of American Branch Offices at Chicago, Pittsburgh, Atlanta, New Orleans, San Francisco, Phoenix, Ariz., Portland (Ore.), Los Angeles, Detroit and Foreign Offices at London, Madrid, Paris, Rio de Janeiro, Montreal, Mexico City and Lima, Peru.

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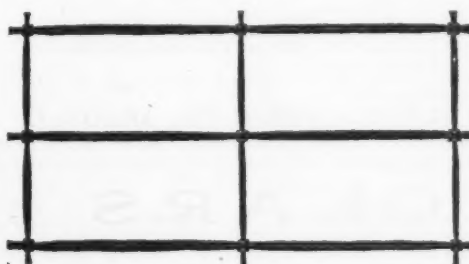
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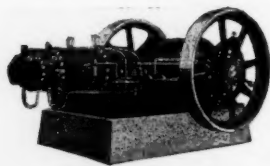
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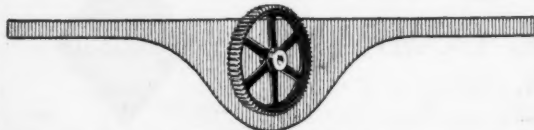
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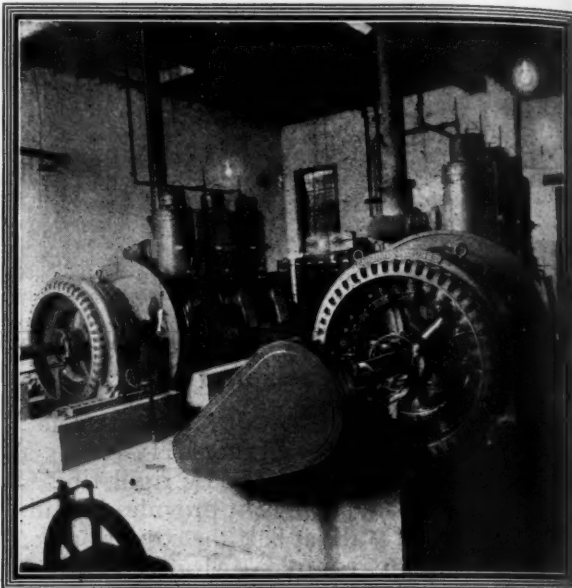
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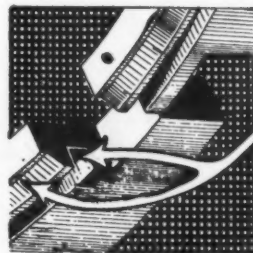
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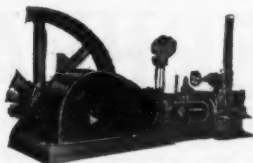
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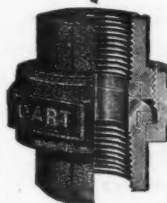
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Solid wedge disc double seated

Fig. 648
Standard
Iron, Bronze
Mtd. for 100
lbs. W.S.P.,
450° total
Temp.



Fig. 892
Ex. Hy. Iron,
Bronze Mtd.,
for 250 lbs.
W.S.P., 450°
total Temp.

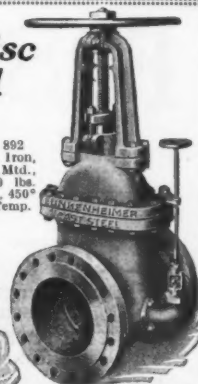


Fig. 1354 Cast Steel Monel
Mtd., for 350 lbs. W.S.-
P., 850° total Temp.

LUNKENHEIMER Gate Valves

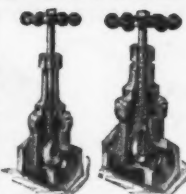


FIG. 427

Fig. 427
Bronze, Rising
Stem
Gate Valve,
for 150 lbs.
W.S.P., 550°
total Temp.



FIG. 768

Fig. 768
Bronze, Stationary
Stem
Gate Valve,
for 200 lbs.
W.S.P., 550°
total Temp.

are economy valves because they offer more in service and satisfaction per dollar invested.

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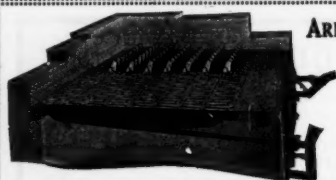
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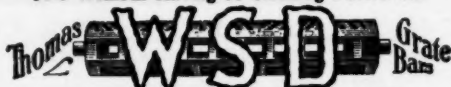
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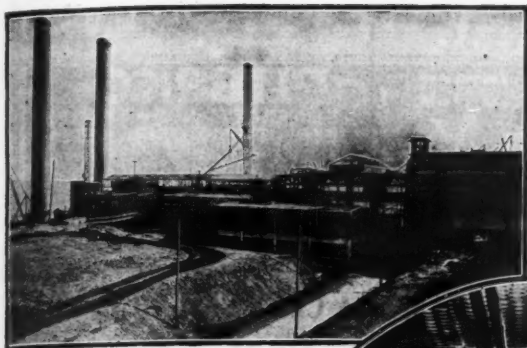
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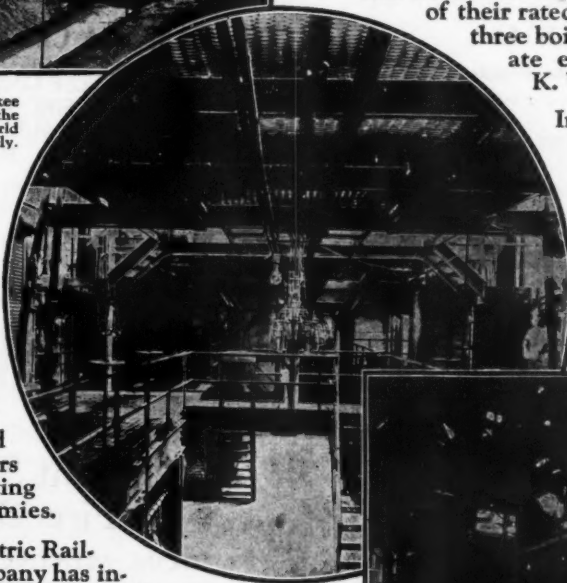
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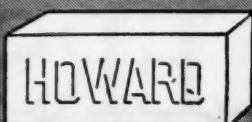
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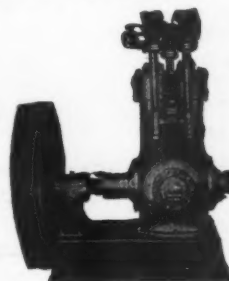
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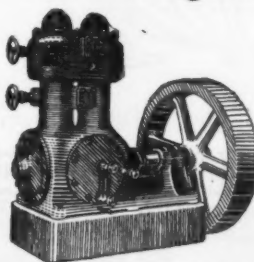
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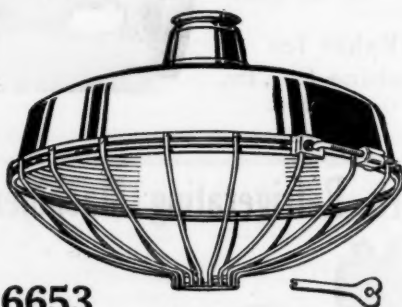
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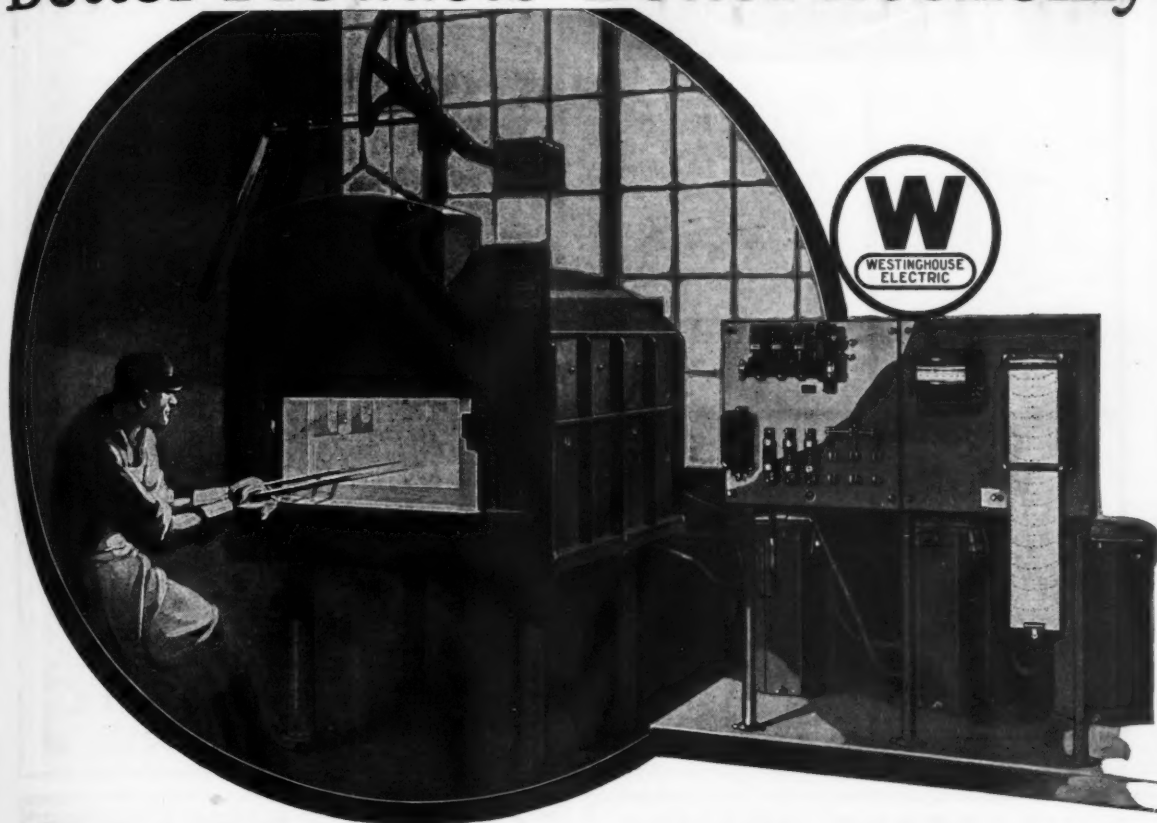
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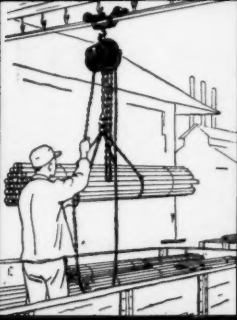
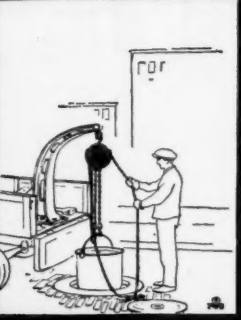
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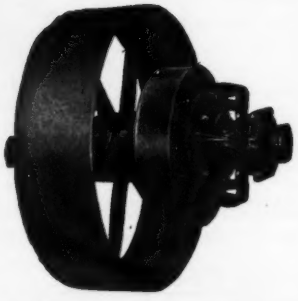
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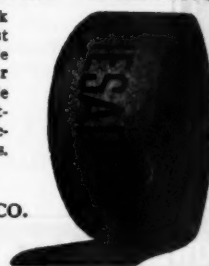
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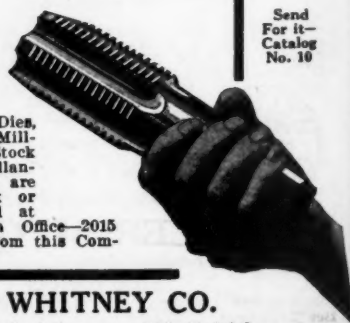
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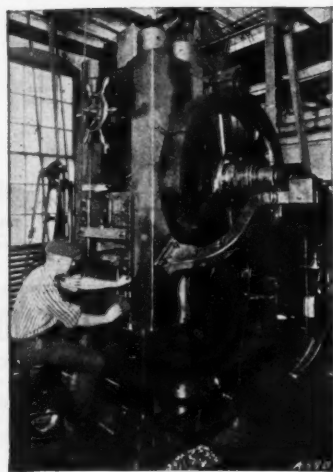
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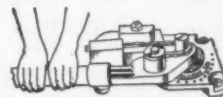
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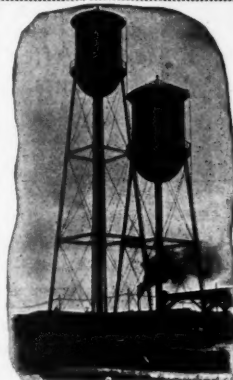
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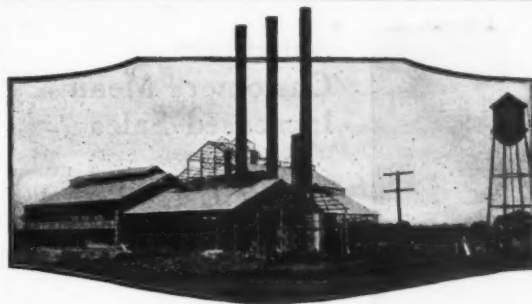
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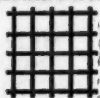
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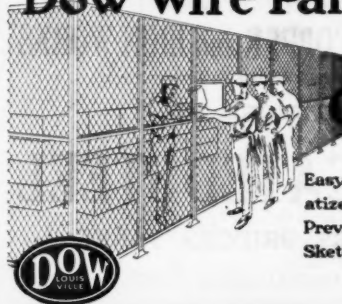


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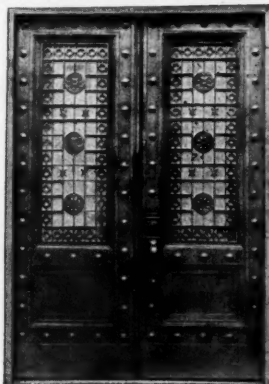
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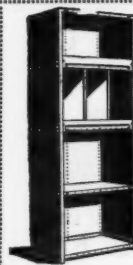


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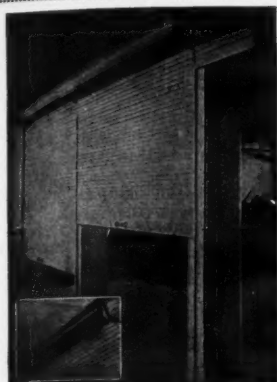
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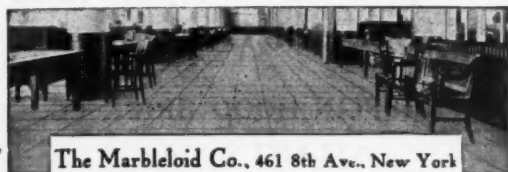
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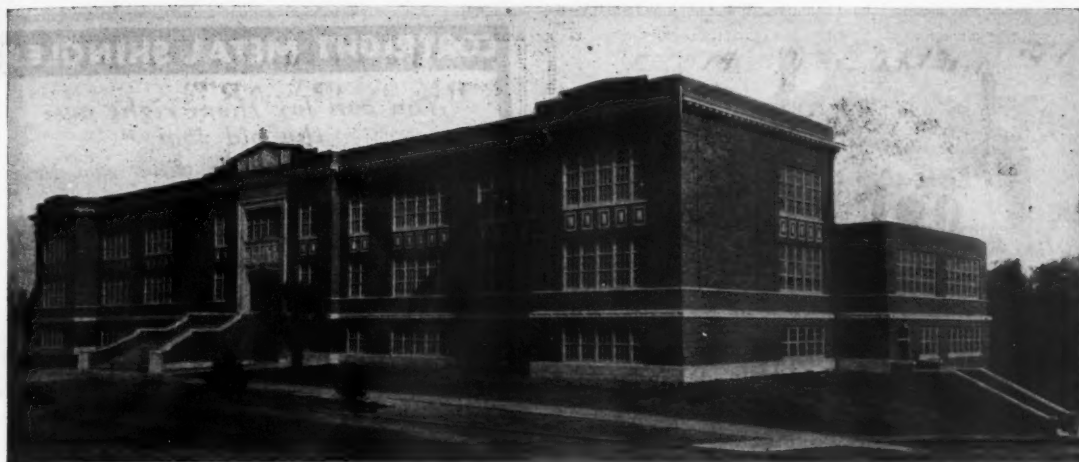
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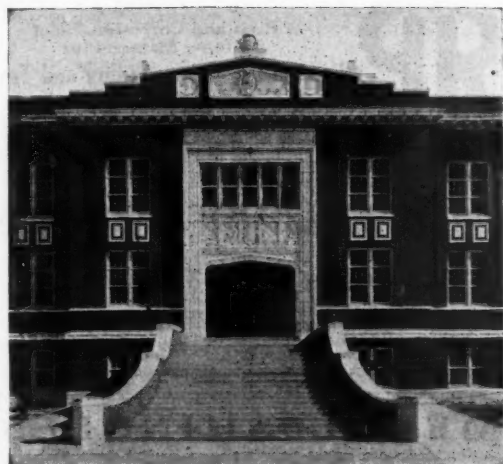
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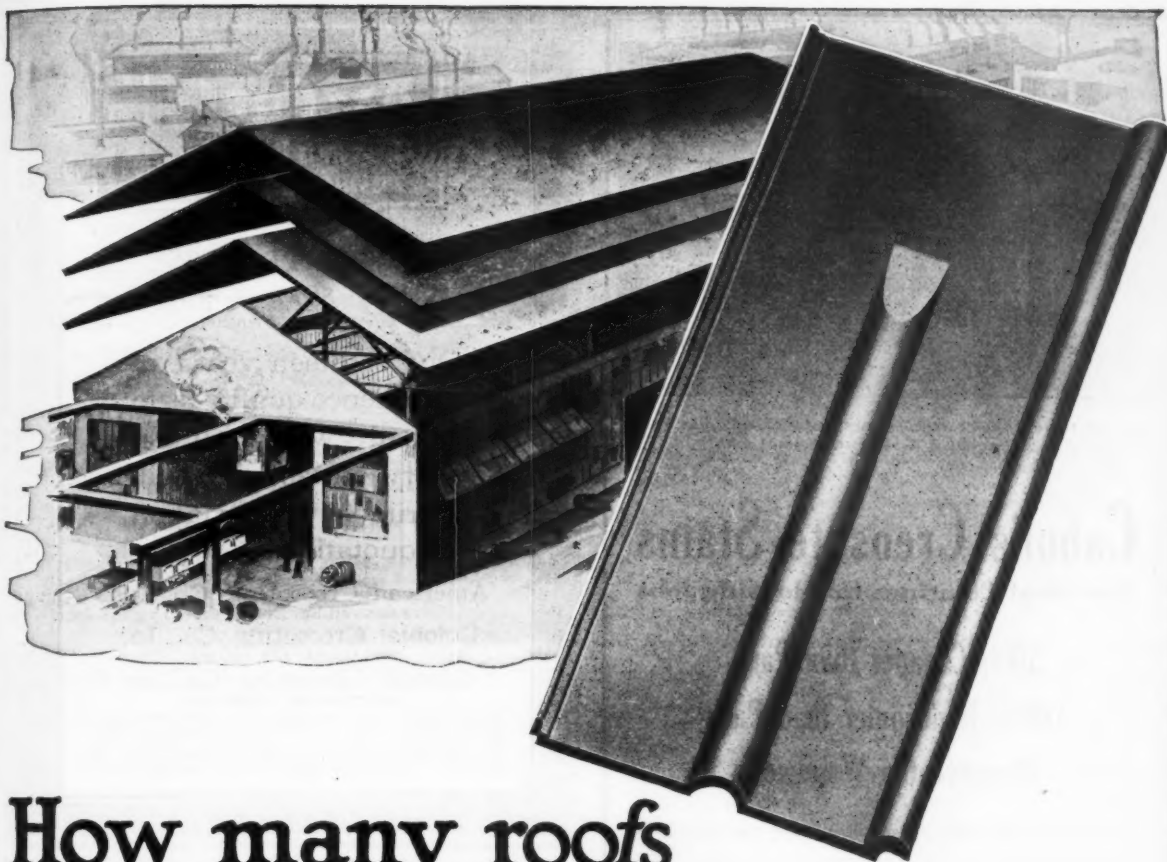
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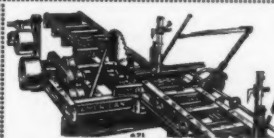
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And hollering in at the window and through the key hole "We want to

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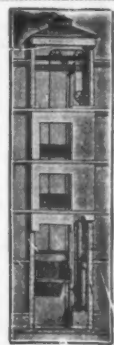
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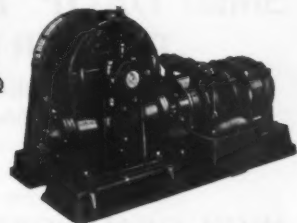
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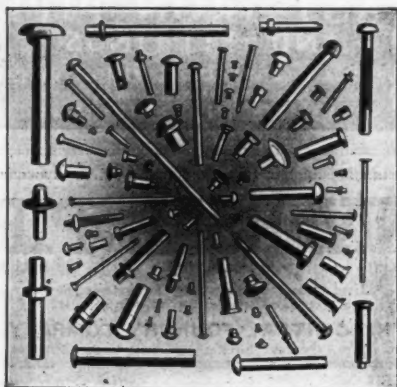
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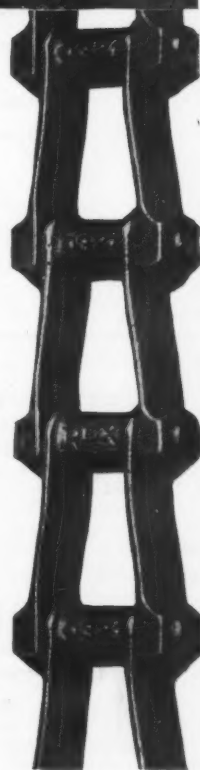
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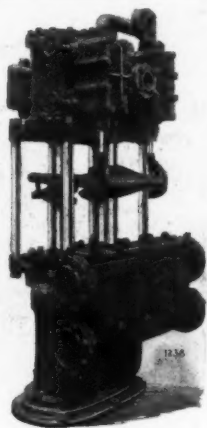
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Vertical pumps are always desirable where the floor space is limited. The fluid valves are so arranged that the pistons are always submerged.

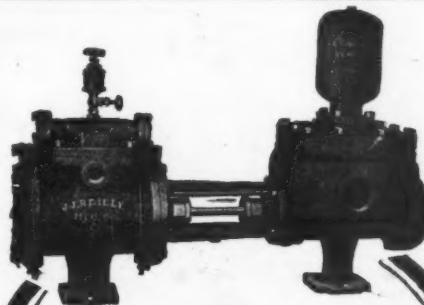
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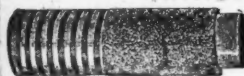
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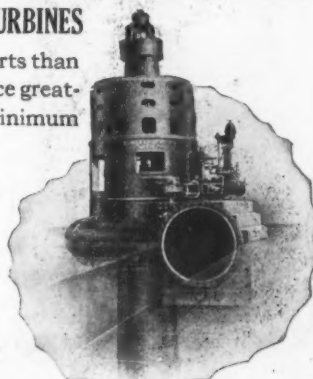
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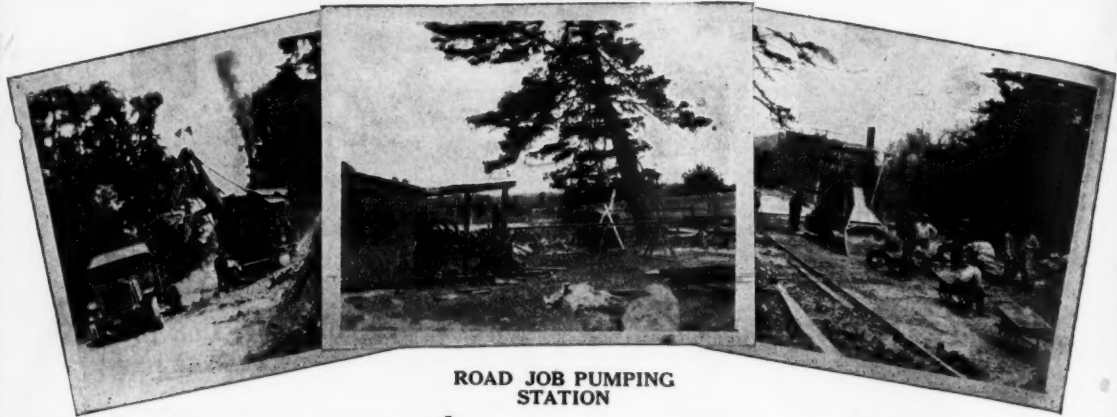
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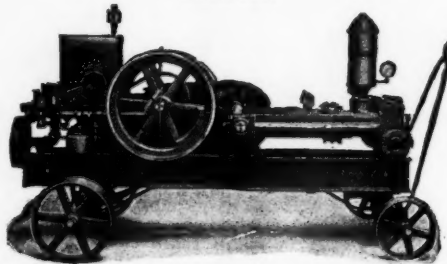




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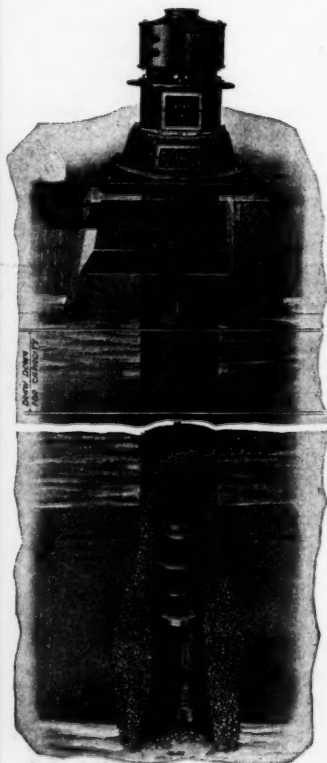
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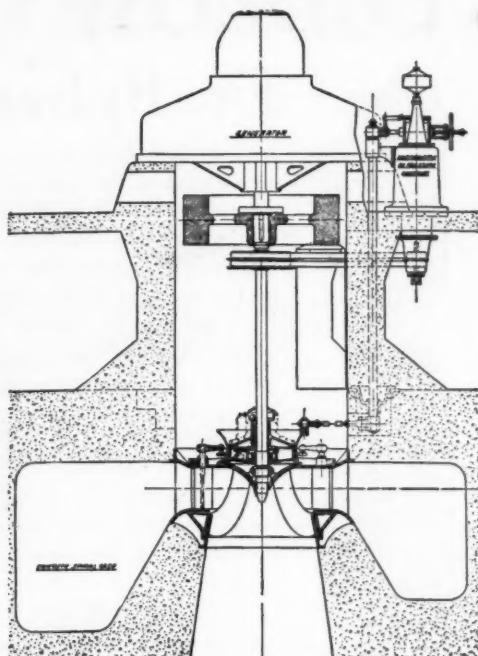
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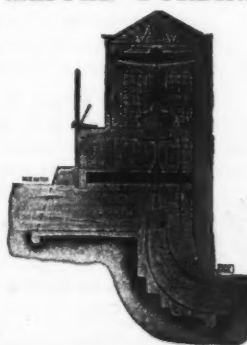
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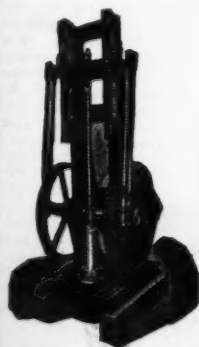
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Deep Well
Power Head

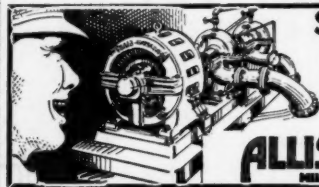
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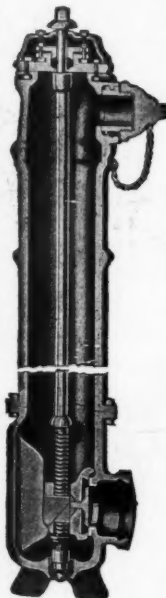
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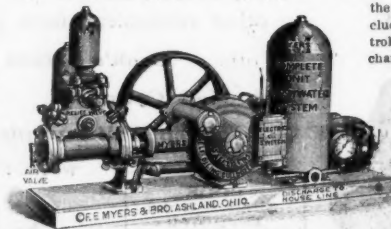
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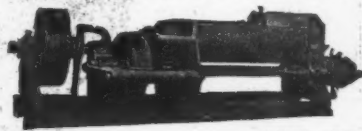
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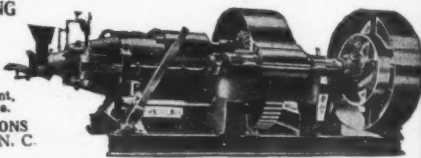
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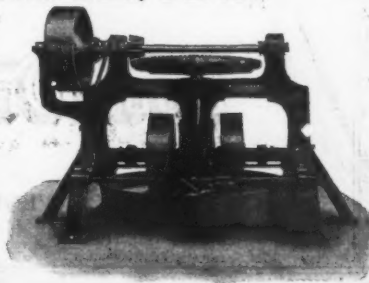
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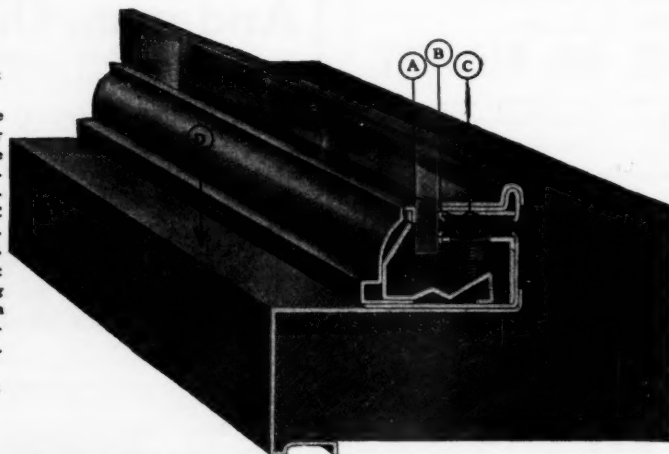
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Volume LXXXII

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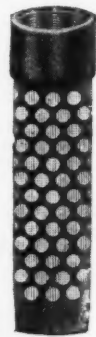
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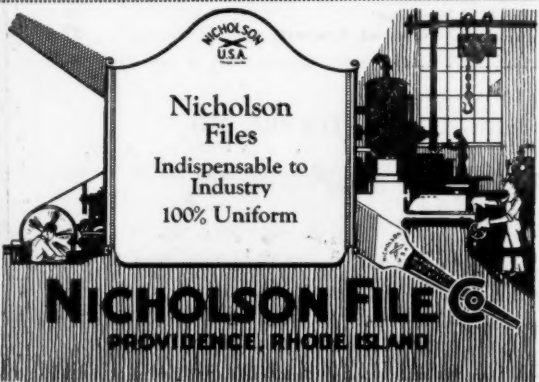
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JOHN GLASS.

IT is with profound sorrow that we announce the death of Mr. John Glass, who for nearly twenty years had been the manager of our Chicago office.

Mr. Glass was a native of South Carolina. He was born about the time the civil war closed and while ever cherishing his love for his native section he was as broad as the country in his patriotism. In his life he was a type of the highest character of a gentleman of the old school, a man of the highest personal and business honor. He was beloved by all who knew him. His ever present smile, his genial, happy, optimistic nature, which never permitted pessimism to dominate him; his love of his fellowman and his fellowman's love for him, endeared him to all with whom he came in contact, and especially so to his associates in this office. To young and old his visits to Baltimore were always hailed with great delight, for wherever he moved he radiated good cheer and happiness.

No business concern ever had a more loyal and devoted member of its force. This paper and its influence and its success were ever uppermost in his heart and mind.

Early last spring Mr. Glass, who had always enjoyed exceptional health, was stricken suddenly with the disease which ended his life. He made a vigorous and heroic fight and although suffering intensely, he seemed to be making a winning fight, when the end suddenly came. His physicians had for weeks been reporting improvement. All of his recent letters to this office had been full of good cheer and of the hope that the physicians were really diagnosing his condition correctly. The next message from his home was a telegram announcing his death.

The call of death will come to all of us. It should be the call to a larger and fuller life in the world beyond, and all of us should so live that at the end it may be said of us as can be said of John Glass, the world is the better because of his life.

THERE MUST BE NO COMPROMISE WITH CONSPIRATORS—THE UNIONS MUST BE MADE TO RECOGNIZE THAT BY VIRTUE OF RIGHT AND MIGHT THE UNITED STATES IS SUPREME.

THERE is a conspiracy, not secret, not only in restraint of trade but actually against the lives of the American people. There has been instituted a blockade of supplies essential to human life. That is civil war. Men who yearn for compromise and are afraid to face realities may call it by another name, but the truth is the truth. An imperium in imperio flaunts the authority of the Chief Magistrate of the nation and issues its ultimatum as might the head of an invading army.

The men responsible for this condition are peculiarly the beneficiaries of the civilization they attack. The reason why coal cannot be freely mined in certain important States is that these States, in a spirit of economic fairness, have accorded to the miners the exclusive right to work in the mines. They and they only have a license to operate. They have had conferred upon them an exclusive franchise, as have the doctors and the lawyers and the dentists and other professional persons. Such an exclusive franchise carries with it an extraordinary ethical responsibility. When the state deeds to a particular set of men control over a public necessity, the state assumes, as it has a right to assume, that the privilege will be forever cherished and never abused.

Whether it be in Illinois or in Pennsylvania, therefore, that the exclusive mining privilege is extended, extraordinary sessions of the State Legislatures should be assembled to enact emergency legislation providing for the licensing of other miners, and providing also that any miner, found guilty of using his franchise for the purpose of waging war on the public, should forfeit that franchise and be forever prohibited from again receiving it.

Mr. Lewis, the man who leads the rebellion against orderly civilization, takes the position that no man can be compelled to work. Quite so, in general terms, but when a man has obtained from the Government an exclusive right to engage in an essential employment, there is an implied, and a direct, obligation on his part to be at his post of duty in a period of national exigency. Nor is it always true that a man cannot be compelled to work. The right not to work is not an inherent right. It is a privilege only, won in the slow march of civilization through the centuries. Nor is it everywhere recognized even today. What did Briand do in France when

railway strikers sought to starve the nation into submission? He called the strikers to the colors and manned the transport with them under military orders. That is a process about to be given new legal sanction in our great sister Republic. Why not? If the theory of the law is that every citizen can be drafted into the militia for the common defense against an alien enemy, why is not every citizen also subject to the same sort of draft when the warfare against the state is just as deadly and destructive, even if the attack is from within instead of from without?

The Government is not without authority to restore the normal processes of industry. It is within the power of the President to declare martial law and suspend the constitutional guarantees. Abraham Lincoln did it. It can be done again. We do not advocate it, necessarily, for the use of force is an acknowledgment of intellectual and governmental incapacity and has its dangers. Most certainly should we object to the seizure by the Government of illegal powers. Better martial law, which is a recognized process, than arbitrary employment of powers, under the civil jurisdiction, the legality of which is doubtful.

It has been clear for days that a coalition exists between the railway and the mine strikers. The object is to impede the movement of coal from the non-union fields. There is no documentary evidence of a contract to this effect, so far as can be discovered, but the circumstantial evidence appears to be conclusive. It is strikingly evident in the West Virginia territory. On this account, a mobilization of motive power at critical points should promptly be brought about. We think, too, that the Department of Justice should at once institute proceedings to force the strike leaders to declare under oath whether or not they have in fact arranged a joint plan of campaign in their attack on the national well-being. The situation is not one that can be handled with kid gloves.

We regard with considerable concern the near approach to a renewal of priorities on the railroads. It was the system of priorities which aided to plunge the nation into the economic morass which began in 1920. Business was stunned by the inability to secure transport. Moreover, at that time the coal crisis was supposititious, as was afterwards demonstrated, and priorities created, did not prevent, chaos. But crude as the priority system is, and disastrous as its consequences may be, if it can be established that only by priorities can the authority of the Union be preserved during this period of civil war, then, reluctant though we are to say it, we believe that priorities ought to be established. There is, indeed, no expedient within the confines of law and order that ought not to be resorted to if essential in the proper protection of the public.

The contention of railway strikers that the Railway Labor Board "is supported and dominated entirely by the railroad interests, and for selfish purposes" is mere stupidity. No such claim was made when the Board was increasing wages and penalizing the roads beyond their powers of endurance. The Board has only lost standing among employees, if it has, when it met a national emergency face to face and reported its decision honestly after long study and deliberation. And if the Board were in fact a puppet that would not

excuse defiance of its edicts. We have in this country the ballot box for the correction of errors. A puppet Board could not last two years, and every citizen knows it. The trouble with the Board is not, as alleged, subordination to particular interests, but the fact that the legislators who created the Board were too cowardly to carry out their program fully and completely. They halted half way. They were afraid to give the Board the authority to enforce its decisions. How, it may be asked, since men cannot be forced to work? Well, it would not be unfair, we surmise, to provide that employees refusing to accept a Board decision, and quitting work on account of it, should thereafter forever be barred from employment on any railway system. And penalties of like character could be applied in the case of disobedient railway officers.

We have been saying for three decades that Government regulation of the railroads, in acute form, was an economic error. First the Interstate Commerce Commission tied the system of transport into knots and now federalization is yoking the country to an absurd system of national wage-fixing. We should not have such things as national strikes were it not that we have national rate-making and wage-fixing commissions. The country would be better off, much better off, without them. But if we must have them, let us by all means have them with authority. It may be necessary often to repeal their decrees by an appeal to the electorate or to public opinion, but this thing of giving a Board jurisdiction over wages and then depriving it of any authority to enforce its decisions is quixotic to a degree. Nine times out of ten a governmental commission will succeed in muddling up any situation. Some time ago we reached the point in this country when prosperity ceased to be purely a question of economic factors and began to be dependent on the attitude of some Board or other in Washington. Most of them ought to be wiped out of existence.

But the railroad workers have a national wage system and the crux of the coal strike is the determination of the miners to force a similar situation as to fuel. They want a national fuel commission. They want some Board to which they can appeal for a political instead of an economic fixing of wages. They have all to gain and nothing to lose, because they strike if the award does not suit them, and the only kind of award that does suit them is when they get all they ask for. Moreover, every year or two they have new demands. We favor high wages, for high efficiency, because high wages are a fine form of Americanism, but we do not like to see Government itself used as a highwayman might use a pistol to exact all the plunder it is possible to secure. A Fuel Commission would do, as all Government commissions do, that is, it would gradually force prices up and up, and, what is worse, put the unions in absolute control. And Freedom shrieks, indeed, when unions, as we know them, pursue their tyrannous domination.

There can be no compromise with disloyalty, no treaty-making with associations that have their daggers out and are waging war on the public. Surrender to such tactics, to such immorality, would be to acquiesce in the betrayal of

the principles established by the founders of republican government. It would be to acknowledge that the Government is not supreme, but is the creature of factions. There comes a time in every nation's life, as in the life of every man, when a supreme issue becomes the infallible test of character, an issue not to be dodged but to be fairly met. Such an issue now confronts the nation. There is no good citizen so humble but that in this emergency he should find means to let the President and responsible authority know that he demands and will support supremacy of law.

When the nation was young the whiskey-makers told Washington they would not obey the law, and would not pay taxes. But he sent the infant Republic's army into the field and he forced them into obedience. Nullification has had mighty

defenders, but still mightier opponents, and in every case, when there has been a President with the backbone to stand by his oath of office, law and order have been vindicated. Both will be vindicated now if the decent, law-abiding elements of the country so demand. We are not to be starved or frozen or pauperized into compliance with the rule-or-ruin platform of the unions. We are not going to permit them to subvert the Government. On the contrary, good citizens all over the Union are determined that in this battle there shall be but one outcome—the unions, not the Government, must surrender. The unions must be made to recognize that within the United States the United States is supreme, supreme not by courtesy, but by right and might and justice. That is a prerequisite to any strike solution.

Are Business Organizations Fully Alive to Present Conditions—How Many are Actively Backing the President and Telling Him and the Public What They are Doing to Meet the Present Situation?

ON Friday the MANUFACTURERS RECORD sent to the President of every state manufacturers organization the following wire:—

"What are the exact conditions of industries of your state as affected by coal and rail strikes? What is your association doing to enable railroads to conduct their operations and coal operators to resume production? Your reply by wire will be much appreciated."

While the replies are not fully as satisfactory as could be desired, a number of these organizations are evidently at work, realizing the gravity of the situation. Some, probably, from inertia, have apparently made no move to let the President know that they stand back of him in his declared purpose to protect to the limit the right of every man to work and to secure a supply of coal to meet the country's needs.

Next winter there will be an acute shortage of coal. Millions will suffer from cold, sickness will be increased, factories in some sections will have to run on short time and even if a full supply could be mined, which is now impossible, a full supply could not be distributed, because the railroad strike will intensify the lack of rolling stock.

Under such conditions every commercial organization in the country should be aggressively at work to arouse public sentiment to the seriousness of this situation and to make public officials, from the President down to the county sheriff or policeman, know that the business interests of this country will back to the limit those who enforce law and order, and will count as traitors and cowards and perjurers those who fail to do their duty and uphold the sacredness of law.

President Harding has taken a firm stand, as have many Governors in response to his appeal, but business organizations have been singularly slack in active, vigorous work to let these men know that they will be upheld to the utmost, while at the same time marking for certain defeat in political activities every perjured coward who violates his oath of office and permits crime to run rampant, either from physical fear or political cowardice.

The replies thus far received in reply to our telegram are as follows:—

Coal Situation a Menace to Iowa's Industry—Governor or Will Protect Miners.

[Telegram to Manufacturers Record.]

Dubuque, Iowa, July 22.

Continuity of manufacturing in this state is largely dependent on coal supply for central stations furnishing electric power. Public utilities have coal on the average to last until August 15 or September 1. Exact condition of industries making own steam difficult to state without making a survey. The general impression is that their continued operation is menaced. Our Association can do little if anything to enable railroads to operate and coal mines to resume. Governor is ready to furnish protection as requested by President.

P. S. FAWKES, President,
Iowa Manufacturers Association.

Dwindling Coal Supplies in Illinois—Manufacturers of State are Strong in Support of Labor Board and for Uninterrupted Transportation.

[Telegram to Manufacturers Record.]

Chicago, Ill., July 22.

Coal situation in Illinois is daily becoming more serious as supplies dwindle. No industries have yet curtailed operations, but many of them, lacking storage facilities, are compelled to buy small supplies at considerably advanced prices. Illinois mines cannot operate, owing to the state law requiring miners to have a certificate of four years' experience. The Illinois Manufacturers' Association today wired Governor Len Small requesting special session of Legislature to repeal mining law which limits coal mining to certified miners. The Governor may also be requested to include in the call the immediate passage of legislation providing for state police. If this legislation is passed Illinois mines can resume operation at once and coal famine in industries and households will be averted.

Situation is less alarming in the railroad strike in Illinois,

although operation of trains has been curtailed and bad order cars are accumulating.

A telegraph message, sent by the Association to President Harding several days ago, strongly supported United States Railroad Labor Board and urged the President to use the full strength of the Governmental forces in preserving the dignity of the law and to employ every Governmental agency, if necessary, to insure the uninterrupted progress of transportation and business.

HERMAN H. HETTLER, President,
Illinois Manufacturers Association.

Coal Supplies the Factor in Maine.

[Telegram to Manufacturers Record.]

Portland, Me., July 22.

Railroads have not over the month's supply of coal; public utilities four to five months; manufacturers some one month, some six months. Average manufacturer by December first would have no supplies of bituminous. Railroad operations now normal; coal situation rather than men threatened operation.

B. S. CLEAVES, SECRETARY,
Associated Industries of Maine.

Oklahoma Backs Coal Operators, Railroad Presidents and President Harding's Policy—Not Expected That Industry Will Be Disturbed.

[Telegram to Manufacturers Record.]

Oklahoma City, Okla., July 21.

Coal shortage has not materially affected industry here yet. Practically fifty per cent public utilities and some railroads using oil and coal. Men are taking care of balance. Cotton ginning industry will not be affected until about September first. Railroads most seriously affected, seven trains laid off, no serious trouble. No stoppage of industrial plants and none expected. Public sentiment against the strikes. Employers Association unanimous in the belief that government should protect all employees regardless of union affiliation who are willing to work. We are against check-off system and restoration of seniority rule and are supporting coal operators, railroad officials, governor, and President Harding's national policy.

L. C. HUTSON, PRESIDENT,
Oklahoma Employers Association.

Free Labor Saving Coal Situation in Washington—Full Protection Assured.

[Telegram to Manufacturers Record.]

Seattle, Wash., July 22.

To date our railroads have not been seriously handicapped but from now on will probably feel the pinch. We have offered them our services and are prepared to assist in any way possible. The few coal mining operations we have that were under agreement with United Mine Workers are preparing to reopen under open shop conditions and anticipate no serious trouble, but if trouble should ensue we have assurances that the state will protect. Majority of western Washington coal mines had their strike a year and half ago and last fall we broke it with free labor and proper protection and these coal mines are now producing more per man than under union domination.

J. E. FROST, President,
Federated Industries of Washington.

Conditions Critical in Montana—Plan Complete Cooperation With President's Policy.

[Telegram to Manufacturers Record.]

Trident, Mont., July 22.

Conditions in Montana are critical because of total suspension of coal production and possible paralysis of transportation. Meeting in Helena on twenty-sixth of all elements involved to formulate concrete program for complete cooperation with President Harding's policy.

E. U. LEH, Associated Industries of Montana.

Tennessee Manufacturers Against Both Railroad and Coal Strike—Cooperating With Executives and Operators.

[Telegram to Manufacturers Record.]

Nashville, Tenn., July 22.

Tennessee Manufacturers Association is cooperating fully with railway executives and coal operators in their difficulties brought on by the uncalled-for strike. We are appealing to our members to release men for railroad positions where possible and to encourage other men to perform patriotic service by accepting work with the railroads. The Association is counselling its members to be patient with both railroads and coal operators and assist in every way in getting the true facts of these two strikes before the people, that the public may understand and more fully sympathize with both railroads and coal operators. The manufacturers of Tennessee are against both strikes and are using their influence accordingly.

C. C. GILBERT, Secretary,
Tennessee Manufacturers Association.

Utah Associated Industries Backing Carriers to the Limit—Loyal Employees Should Have Full Production.

[Telegram to Manufacturers Record.]

Salt Lake City, Utah, July 21.

Utah industries not yet seriously hampered by coal and railroad situation. Coal production seventy-five per cent, expect normal output by August first. This association doing everything in its power to support transportation carriers in their present situation and will uphold decision United States Railroad Labor Board. We would deplore any movement by Labor Board or any other government agency at this time that would discriminate against loyal employees of railroads by reinstating strikers under seniority rule prejudicial to present employees. We are in constant touch with all agencies affecting industrial situation in this state and lending every possible aid.

UTAH ASSOCIATED INDUSTRIES.

Maryland Situation Satisfactory at Present—Close to Non-Union Mines.

Baltimore, Md., July 24.

Editor Manufacturers Record:

The general situation among industries in Maryland, particularly in Baltimore is better than in most other localities. We are close to the non-union mines and there is no complaint, all manufacturing plants operating satisfactorily. The Association's committee representing users of power and its committee representing users of transportation, recognizing that a crisis is approaching in the general situation, will meet this week to formulate recommendations as to what should be done.

Merchants and Manufacturers Association of Baltimore,
E. ASBURY DAVIS, President.
A. S. GOLDSBOROUGH, Secretary.

All Resources of Government Must Be Used to Promote Peaceful Production and Protect Men in Right to Work.

[Telegram to Manufacturers Record.]

Columbus, O., July 22.

While we cannot speak with detailed information, it is beyond dispute that Ohio is feeling severely the pinch of the coal famine. Many larger industries have been compelled to decrease operations and some to close as the coal reserve shrinks. Many public institutions and municipal supplies are reported dangerously low and continuance of present conditions will make situation critical within next thirty days.

The coal situation would not be alarming except for developments in connection with railway strike. It seems to be apparent that some form of agreement between railway strikers and the United Mine Workers is leading to a determined effort to cripple first and effectively the railroads serving the non-union coal fields. Proof of this is not lacking.

As to general railroad operations, while some trains have been annulled there has as yet been no serious trouble. There are plenty of workers ready to take the place of all men who have or will go out if protection is furnished.

As to the attitude of the Ohio Manufacturers Association, we may say that we stand by the President in his efforts to secure a peaceful adjustment of disturbed conditions and we will give him every support if he finds it necessary to go to the very limit of Governmental resources and executive power to protect the interests of the people, promote peace and insure the production and transportation of necessary commodities and the right of men to work, even if that involves the iron-handed suppression of disorderly or rebellious demonstrations.

J. H. FRANTZ, President,
Ohio Manufacturers Association.

Considerable Coal Supplies in Massachusetts—No Interruption Thus Far to Railroad Service Nor to Industry.

[Telegram to Manufacturers Record.]

Boston, Mass., July 21.

Industries of Massachusetts at present not seriously affected by coal and rail strikes. Have considerable surplus on hand present time. So far no interruption to railroad service. Associated industries assisting in supplying men to railroads through organization of members covering entire state so far meeting with good success. Believe situation can be handled if authorities afford ample protection to men wishing to work. Considerable coal now coming from provinces and other foreign ports.

CHAS. R. GOW, PRESIDENT,
Associated Industries of Massachusetts.

Nebraska Manufacturers Association "On the Job."

[Telegram to Manufacturers Record.]

Grand Island, Neb., July 22.

Coal and railroad strikes not seriously affecting Nebraska industry so far. Our Association is on the Job.

A. R. KINNEY,
President, Nebraska Manufacturers Association.

Industries Not Much Affected.

[Telegram to Manufacturers Record.]

Philadelphia, Pa., July 21.

Industries have not been much affected by coal and rail strikes but will be very seriously if they continue. Our association is powerless in the matter.

PENNSYLVANIA MANUFACTURERS ASSOCIATION.

Far Reaching Consequences Possible in North Dakota—Farmers Beginning to Take Notice—May Take New Position on Labor Question if Movement of Coal and Grain is Stopped.

[Telegram to Manufacturers Record.]

Grand Forks, N. Dak., July 21.

Up to date conditions are normal as regards both rail service and coal strikes. We have done nothing to materially aid roads but have tendered road executives our good offices and are keeping in close touch with situation. Coal mines in this state all operating at normal. Farmers who have endorsed the so-called Farmer Labor Movement are beginning to take notice and wonder if perchance they have not combined against their own interests. If labor blocks free movement of coal and grain farmers will change their position on labor question.

O. J. BARNES Co.

Connecticut Industries at 75 Per Cent Normal—Full Cooperation With Railroads.

[Telegram to Manufacturers Record.]

Hartford, Conn., July 22.

Connecticut industries are now operating at 75 per cent of normal or 25 per cent below normal. Production not yet retarded by coal or railroad strikes. Serious situation will present itself if strikes are not settled in very near future. Transportation here is normal and no curtailment of service up to this time. All industrial and commercial interests are cooperating to fullest degree with railroads.

MANUFACTURERS ASSOCIATION of Connecticut.

Serious Outlook in South Dakota for Coal Supplies.

[Telegram to Manufacturers Record.]

Mitchell, South Dak., July 21.

Coal shortage in South Dakota not yet acute but outlook very grave. Depend principally on head of lakes docks. Their stocks nearly exhausted. Rail strike has cancelled few if any trains but freight movement shows harvesting and threshing begun and demands for movement of crop will be heavy. Our association has taken no official action.

F. J. HERRICK, PRESIDENT,
South Dakota Manufacturers and Employers Association.

Vermont Stands Behind Independent Workers.

[Telegram to Manufacturers Record.]

Quechee, Vt., July 21.

Rail and mine strike have not affected industry in Vermont as yet. Railroad positions formerly held by union men at junction points have been filled by non-union men. Vermont has always admitted a man's right to work whenever he wants and has stood back of him as shown during the paper-makers' strike last year.

JAS. F. DEWEY,
President Vermont Manufacturers Association.

Trains Running Regularly—Industries and Transportation Not Materially Affected in Oregon.

[Telegram to Manufacturers Record.]

Portland, Ore., July 21.

Industries and transportation in Oregon not materially affected by coal and rail strikes. Fuel used in our industries largely oil or wood. All trains running regular schedule except possibly on some small branch lines traffic may have been curtailed. Our association helping secure mechanics for railway shops.

P. C. PATTERSON,
President Oregon Manufacturers Association.

Industrial Interests Giving Railroads Full Cooperation in Alabama.

[Telegram to Manufacturers Record.]

Birmingham, Ala., July 21, 1922.

Full cooperation is had by railroads from all industrial interests of state. Some interference to prompt movement of traffic and supplying of cars due to railroad strike has been experienced. But one line seems to be seriously affected. No mining trouble experienced except in so far as failure on part of railroads to supply equipment.

L. SEVIER, PRESIDENT.

Alabama Manufacturers Association.

Normal Coal Stocks in Rhode Island Now, But Condition Serious if Strike Lasts.

[Telegram to Manufacturers Record.]

Providence, R. I., July 22.

Industries in our state at the present moment have normal stocks of coal. If coal and rail strikes continue into August conditions will be serious. Our office is assisting the railroads to the best of our ability by furnishing mechanics of all kinds.

Employers Association of Rhode Island.

JAMES A. ROGERS, Secretary.

Little Difficulty in Louisiana Thus Far.

[Telegram to Manufacturers Record.]

New Orleans, La., July 22.

With minor exceptions movement of freight and passenger trains in and out of Louisiana is normal and no fuel shortage up to this time. No immediate prospects of serious developments.

Louisiana Manufacturers Association,

WILMER H. JOHNSON, President.

Normal Industrial Conditions in Colorado.

[Telegram to Manufacturers Record.]

Denver, Colo., July 21.

Industrial conditions in Colorado normal. Coal production not affected. Supplying adjoining states. Railroads running on schedule time. No disturbances.

W. J. H. DORAN.

President Colorado Manufacturers Assn.

Minnesota Industries Not Curtailed.

[Telegram to Manufacturers Record.]

Minneapolis, Minn., July 21.

Industries in this state not materially affected as yet by coal or rail strike. Railroad curtailments so far principally affect passenger traffic. Our association has taken no official action on the premises to date.

A. W. STRONG,

President Minnesota Manufacturers Association.

No Trouble in Kansas—Conditions Normal.

[Telegram to Manufacturers Record.]

Topeka Kansas, July 22, 1922.

State troops protecting rail shops and mines. No trouble from strike. Industries and railroad operations normal. We are taking no part except to keep our members informed.

W. G. DICKIE,

Associated Industries of Kansas.

California Feels No Adverse Affect.

[Telegram to Manufacturers Record.]

Oakland, Calif., July 21.

Strike conditions have not yet affected industry adversely, minor disturbances being watched by state officials and railroads maintaining schedules. No coal mines in California.

J. R. MILLAR, PRESIDENT.

California Manufacturers Association.

Effect of Strike Negligible in Kentucky—Manufacturers Association Giving Strong Cooperation to Railroads and the Forces of Law and Order.

[Telegram to Manufacturers Record.]

Louisville, Ky., July 21.

Thus far effects of strikes on Kentucky industry are negligible and no serious embarrassment is indicated for immediate future. This association is lending its moral influence to continuous operation of mines and railroads and its agents are giving active co-operation to local railroads in their efforts to secure men and supplies. Furthermore the Association is actively encouraging governmental authorities in maintenance of order and protection of life and property. Association bulletin mailed to reach you Monday is being sent by us to 2500 men and women of Kentucky urging them to help maintain supremacy of law.

KENTUCKY MANUFACTURERS ASSOCIATION.

Not Offering Assistance to Railroads or Coal Operators—Believes Washington Can Handle Situation Unaided.

Rochester, N. Y., July 21, 1922.

Editor Manufacturers Record:

I have your message of this date, and have referred same to our General Secretary, Mr. Mark A. Daly, Buffalo, N. Y.

Our association is doing nothing, so far as I know, to enable railroads to conduct their operation and coal operators to resume production, and I do not see wherein our help is needed. It would strike me from long range and from what we read in the papers that there is plenty of brains in Washington to handle this question.

F. H. SWAN, President.

Associated Industries,

Cooperating With Railroad Executives by Furnishing Men.

[Telegram to Manufacturers Record.]

St. Louis, Mo., July 24.

Associated Industries of Missouri in special bulletin is asking its members at suggestion of railroad executives to forward names of men who might accept positions in the following trades: Carpenters, machinists, blacksmiths, pipe-fitters, boiler-makers, and other mechanics. Names will be transmitted to railroads upon receipt.

Associated Industries of Missouri,
ELMER DONNELL, Managing Director.

Fifty Days Fuel Supply in Georgia.

[Telegram to Manufacturers Record.]

Atlanta, Ga., July 21.

The manufacturing industry of this state has not been affected up to this date by strikes. Conservatively estimated they have forty to fifty days fuel supplies. Offering all assistance possible to aid railroads in their operation so as to keep industry going.

W. B. BAKER.

President Georgia Manufacturers Association.

A HOPEFUL SIGN.

PRESIDENT MARKHAM of the Illinois Central Railroad has promptly accepted an offer of the Gideons who have for years been supplying Bibles to hotels, to have that organization furnish Bibles for all the Club and Library cars of his road. This is a move on the part of the Illinois Central Railroad which should be followed by every other railroad carrying library or club cars.

RIGHTS OF NON-UNION OR INDEPENDENT MEN MUST BE FULLY RESPECTED.

IT is tremendously important that there shall be no settlement of the railway or the coal strike which does not recognize and protect every right of the non-union or independent men who have remained at work. They are the men whom the nation must honor, safeguard and protect. They are the men who have stood in the breach and held the fort despite personal danger and bitter denunciation. They are the real heroes of the nation, who have risked their lives for individual independence and national safety. If they are not granted priority rights in every respect in any strike settlement, the officials who fail to maintain this position will prove faithless to their duty to these men, and false to the country.

Let there be no compromise with criminality, no yielding to the bludgeon of unionism, no cowardly surrender which in the slightest degree fails to uphold and honor the non-union or independent men who have proven their patriotism and their faithfulness by sticking to the job. Let us render due honor to them and place them in the forefront of any settlement made with the strikers. If any railroad or any government agency fails to do this, it will deserve the severest condemnation of all right thinking people.

FEDERAL GOVERNMENT AND ALL BUSINESS INTERESTS SHOULD UNITE TO UTMOST POSSIBLE EXTENT TO BRING IN FOREIGN COAL.

THE purchase of coal in Great Britain by American buyers suggests the importance of every effort being made by railroads, manufacturers and other big coal consumers as well by the Federal Government to arrange for the heaviest possible importation of British coal as rapidly as possible. Every available ship owned by this country should be immediately put into this service, without any effort to make any special profit on the freight in bringing in coal.

If the Shipping Board and the Federal Government want to show to the American public the supreme importance of a merchant marine to meet an emergency in peace as well as in war, let the utmost effort now be made to send every available ship to British ports for coal cargoes. At the same time, all idle British ships should be given by our government every possible cooperation in bringing over coal to whatever extent Great Britain can increase its coal production.

We should secure the utmost from English mines, for even if the strike should suddenly end it would not be possible for this country to mine a sufficient amount of coal to meet our actual necessities during the fall and winter months; we cannot possibly bring over more British coal than will be needed. Moreover, as Canada has largely depended upon this country for its coal requirements, it would be well for the Canadian Government and business interests to look to England for their supplies to as great an extent as possible. Every ton of foreign coal brought into this country during the next two months will be needed even if the cost should be somewhat higher than the price which we have been paying for American coal. The difference would be instantly wiped out by the enormous value of heavy importations and the influences which this would have in keeping railroad and industrial concerns in operation. President Harding can well afford to use the utmost power of his office to aid in furthering such a plan as this, and he should receive the immediate co-operation of every business interest in the country.

Even if the coming winter should be a mild one we cannot

possibly provide coal enough for the country's need and if it should be a hard one the suffering would necessarily be extremely severe on individual consumers and on business interests. English coal can help out the situation to the extent that it can be brought in by our ships and by foreign ships and laid down at American ports.

If every port on the Atlantic and Gulf coasts could be supplied with English coal during the next few months this would lift a great strain from the coal output of this country, which would then be more largely supplied to the interior.

A LETTER TO PRESIDENT HARDING.

Baltimore, Md., July 19, 1922.

Hon. Warren G. Harding,
President of the United States,
Washington, D. C.

My dear Mr. President:

Your decision to uphold the right of every man to work, and to use the full power of the nation to safeguard this sacred principle should receive the unstinted praise and the fullest co-operation of every patriotic man. Unless individual liberty can thus be safeguarded national liberty must inevitably perish. The American flag must float over men free to work when and where they elect without the domination of radically led labor unionism, or else it must be hauled down in dishonor and disgrace. It may cost much to maintain this freedom and the nation's sovereignty, but no cost is too great, for upon this issue rests the future of America,—and that means of civilization.

The same forces that utterly destroyed Russia and brought indescribable chaos and suffering beyond the power of the human mind to fully grasp, are at work in this country under the same kind of leadership. If radically dominated unionism can flout the efforts of you as President of the United States to maintain law and conspire to stop our production and transportation of coal and other products in order to freeze or starve the nation into submission, and that is evidently the determined plan of those who are forcing this issue, then the sovereignty and the perpetuity of this Government are more at stake than they ever were during the Civil War, or when the armies of Germany were almost in sight of Paris and longing for the privilege of looting that city and then pressing on to the conquering and looting of the United States. Treason stalks abroad under such conditions, and unwavering firmness backed by all the nation's strength can alone lead our country out of the present danger and into safety. Your firmness for the enforcement of law and order wherever and by whomsoever law is violated is now essential to the nation's life. The nation's life is to a large extent in your keeping. Mighty as is the responsibility, I pray that every true American will stand by you as you protect every man in his liberty to work.

May I quote an inscription from the monument of a great Georgian—Ben Hill—which is:

Who saves his country saves all things,
and all things saved shall bless him.
Who lets his country die lets all things die,
and all things dying curse him.

With great respect, I am,

Very truly yours,

RICHARD H. EDMONDS,

Editor.

A WORLD WORK.

GEORGE M. TRAYLOR, a leading business man of Atlanta, writing the MANUFACTURERS RECORD, says:

"I could not express too strongly my appreciation of the great work you are doing, not only for our own country but for humanity. I regard yours as a world work."

GERMANY CAN PAY AND SHOULD BE MADE TO PAY.

ENGLAND, France and Belgium are taxing their people from four to six times as much per capita as Germany, though German people are more fully employed probably than those of any other country in the world. And yet Germany for the definite purpose of misleading the world is crying poverty and inability to pay the reparations—which are simply the lying methods of a nation dominated by liars and looters.

Until Germany faces the situation squarely and makes some atonement for its criminality in bringing on the World War and the methods of conducting it, it will deserve no pity, no sympathy, no financial help but only the supreme contempt of all honest men everywhere.

Germany should have been compelled to repudiate every dollar of indebtedness incurred for carrying on the war and no extension of reparation payments should be granted except on that basis—Then the German people themselves who bought these war bonds would have to stand some of the financial penalty.

When the Confederacy was conquered, one requirement made by the United States Government was the complete repudiation of every dollar of indebtedness which had been incurred by the Confederacy. The South fought an honest war and fought it on the highest plane of warfare; it did not fight for conquest or loot, it fought for what it believed to be a great principle.

Germany fought for loot, for world domination a war which was wicked and cruel and inhuman beyond description. Why should Germany receive treatment far more lenient than the South received?

Why should not Germany have been forced to repudiate all of its war indebtedness as one of the first penalties imposed for its crime? But then why did Lloyd George utterly fail to keep his pre-election promise to bring the Kaiser and his co-criminals to trial for their criminality? The cowardice of Lloyd George in failing to keep this promise is in keeping with the blunder America made in not insisting upon marching to Berlin and there settling the terms of peace. The cost in men and money would have been far less than what the world will have to pay for this great folly.

SHALL WE TAKE THE PALM FOR BARBARITY AWAY FROM TURKEY AND GERMANY?

Creek Motor Co.

Okmulgee, Okla., July 17, 1922.

Editor Manufacturers Record:

WE read your article bearing on the Illinois mine horror, and must say you are covering various phases of the situation throughout the country today, in a way that is not done by any other publication. About the time we received your paper we got a noon paper reporting the attack of a mob of strikers on the mine of the Richland Coal Company at Wellsburg, West Virginia, in which the sheriff and seven men, it seems have been killed. From recent events it is rather difficult to figure out if this is any longer a free country. At any rate, if the laws of this country mean anything, it would seem to be about time the present national administration were taking a hand in their rigid enforcement, and unless this is done shortly, we in this country had better have nothing further to say regarding Mexico, Turkey, or even the Germans in Belgium.

It seems to us, it is time that other thousands of publications throughout the country would get on the job with reference to these matters in the same vigorous way you are doing.

H. G. PINE.
Secretary-Manager.

SUGAR MAKING POSSIBILITIES OF FLORIDA.

MR. A. L. MATHEWS, president of the Palm Beach—Everglades Farm Co., with offices at Toledo, Ohio and West Palm Beach, Fla., in a letter to the MANUFACTURERS RECORD gives some interesting views as to his faith in the great sugar possibilities of Florida. In the course of his letter he says:

"Enclosed please find check for \$7.00, this being subscription to your magazine for one year, and one copy of your booklet, 'Blue Book of Southern Progress'. I am tremendously interested in this book, which was handed to me by our attorneys in Jacksonville a week or two ago.

"Our company has cleared a tract of 10,000 acres of land in Palm Beach County, Florida, which we are developing and will later place on the market. A few words as to myself might explain a little better why we are interested in that section.

"I am a sugar engineer by profession, and up until 1911 had been engaged in the construction and operation of beet sugar factories in this country. At that time it appeared that the beet sugar industry was doomed to destruction on account of the Underwood tariff bill, and I then entered the cane sugar industry with one of the largest cane sugar factories in Porto Rico. After one season there, I spent nearly a year traveling in different parts of the world for that company, studying methods of manufacturing, cost of production, etc. I then went to Cuba as superintendent of what was the largest factory in the world at that time, and after two years in charge of that plant, I went to New York as vice-president of the J. G. White Management Corporation, in charge of several sugar companies which they were operating in Cuba. While I was with the J. G. White Company, my attention was called to the possibilities of Florida as a sugar producing state.

"At first I was very skeptical of these possibilities, but on making a thorough investigation I soon found that the Everglades, given the proper drainage, were an admirable section for producing sugar cane. The more I investigated the Everglades of Florida, the more impressed I became with the possibilities of that section, and I finally cut loose from all of my other activities for the purpose of forming a company for the development of a large tract of this land. Having grown up in the West and being familiar with the work of reclamation in the arid sections, I also decided the method which had been used in developing the irrigated sections of the West was the proper method to be applied in Florida. In other words, instead of each settler trying to work out his own individual problem of drainage and transportation, the most efficient and economical method would be for a company to develop a large tract of land and so sub-divide the same that each settler would be provided with drainage and transportation.

"I then acquired a tract of 10,000 acres in Palm Beach County, located on the Cross State Highway, from West Palm Beach to Fort Myers, and we are now proceeding with the work of development on this tract. The tract is six miles long and three miles wide, and we are putting a main canal through the center of the tract, this canal being 35 feet wide and 10 feet deep. At half mile intervals on each side of this tract will be lateral ditches into which individual farm ditches will drain. A hard surfaced road will be constructed on the spoil bank of the main canal, and on each of the lateral canals. By this means of development, every farm will have perfect drainage and also be located on a hard surfaced road.

"We are now putting in a demonstration farm of 70 acres and during the coming winter will have growing on this farm all the various crops which are adapted to that section. Our plan is to use this farm as an object lesson to the settlers on this tract, and we are carrying this idea still further, and have in our employ one of the most practical experienced agriculturists in Florida. This man will confer with all the new settlers and advise them as to their crop system and general methods of farming. In other words, his sole activities will be to help the settlers to make a success of their operation. We also expect to employ a woman who has made a great success as a home demonstration agent, and she will work with the wives and families of the incoming settlers in order that they may adapt themselves more readily to the somewhat changed living conditions to which they will be subjected.

"I am a firm believer in the statement made in your Blue Book that the South has the most undeveloped resources of any section of the United States. I also believe that the capital for the development of these resources must come from the North, and for this reason we have organized our

proposition from two angles. We first have an organization with headquarters here in Toledo for the sale of bonds on our enterprise, the proceeds of these bonds being used for development work. We are also organizing a land sales department throughout Ohio, Michigan and Indiana, and the function of this department will be to place before farmers and others in this section the advantages of locating in the South. We also maintain an office in West Palm Beach, and our work there is in charge of a very capable engineer who is a graduate of Tulane University, and who has had a lifetime of experience in drainage and reclamation work, including a number of years in the Everglades of Florida. In addition to the 10,000 acres which we now own, we are negotiating for other holdings of considerable area, and expect before long to have 20,000 or 25,000 acres under development, and which we expect to settle almost entirely with Northern farmers."

THE EUROPEAN SITUATION AS SEEN BY AN AMERICAN BUSINESS MAN.

ANSON C. GOODYEAR, president of the Great Southern Lumber Company of Bogalusa, La., the largest lumber concern we believe in the United States, writing from the company's office in Buffalo, N. Y., and giving some impressions received from a study of the business situation in Europe, told such an interesting story of conditions abroad that though his letter was not intended for publication we have secured his permission to use it. In the course of his letter, which is chock full of the kind of news that American business men want, he said:

"I don't believe that I can attempt to say anything that would be of great value on conditions in Europe. My trip was chiefly concerned with investigation into conditions affecting our own business as manufacturers of lumber, paper and naval stores. None of these industries are prosperous in Europe just at present. I do not see how we can expect Europe to buy much of our products for some time. In fact, I would be sorry to see our own business increased very much with Europe until our exchange is on a firmer basis. If the countries of Europe should commence to purchase from us in large quantities, it would mean that they were going straight into bankruptcy.

"The hardest working countries in Europe today are undoubtedly Belgium and Germany. I spent practically all of the year 1919 in continental Europe, and during four months of this time was in Central Europe as fuel administrator under Mr. Hoover. Beginning with the armistice the Belgians went to work at once and they have made enormous strides forward. On this trip I drove over the battle front in Belgium and found that they had practically rebuilt the whole area that was destroyed. Of course, except on the battle front Belgium was really not physically injured by the war. The Germans did no damage in other parts of the country.

"The French, on the other hand, have not made anything like such a complete restoration, but the destruction in France was far beyond anything in any other part of Europe. In the great coal district of Lens, they have made enormous strides forward in restoring production and rebuilding the property which the Germans destroyed. Farther South, there is still a great deal of work to be done. The French politicians have, I think, made a mistake in leading their people to expect enormous sums from German reparations. If they had gone to work as the Belgians went to work, they would be far better off today and have just as good a chance of getting the reparations.

Germany is very busy. Every factory is working, but with the German mark at about 300 to the dollar, they cannot afford to buy anything from us except absolute essentials. On the other hand, with their low labor costs, they should be able to produce goods that will drive the goods of any other country in the world out of the market. At the Leipzig Fair this year, I was told, that many companies took orders that will keep them running for two years. The Germans do not want foreigners in Germany because they tend to force up their cost of living. I was told this very frankly by business connections there.

"Poland is still suffering from political incompetence. The Polish people still have a great deal to learn before they can efficiently administer the great resources which they have received in Upper Silesia, Galicia and elsewhere. They are enthusiastic but uncertain. They have made a very consider-

able improvement in coal production and some improvement in their transportation system, but there still remains a great deal to be done, and with the Polish mark at 4000 to the dollar, the financing of foreign purchases has become practically impossible.

"I was advised by Americans in Warsaw that despite credit advances from the American Government and American firms, no preference was being given them in business; in fact, a very small difference in prices would cause them to place an order with the Germans. This has in some cases disgusted American producers.

"In Holland, there have been very large losses in business recently, with some serious bank failures, but the great prosperity enjoyed during the war will easily see the country over the lean period.

"I found a considerable improvement in the lumber business in Sweden, with prices on their own lumber going up. Of course, Sweden is not an importer from this country of any material of any great bulk. In Sweden, as well as in Paris and London, the expenses of a traveler are as high as in New York, if not higher. In Berlin costs are about one-quarter of what they are in Paris, although foreigners are charged twice as much as Germans. In Poland expenses are only a small fraction of what they are in the countries with the higher monetary credit."

AN EMPTY JAIL TELLS THE STORY OF A NEW ENGLAND CITY.

MR. S. H. THOMPSON of the Thompson Hardware Co., Lowell, Mass., in a letter to the MANUFACTURERS RECORD tells of the remarkable betterment of conditions in that city in which a jail that had been overcrowded since 1836 was closed two years ago because prohibition had made it no longer necessary. Other facts which he gives are of vital interest to those who favor prohibition whether from the economic or the moral standpoint, and should be of equal interest to every man whether he has favored or opposed prohibition. Facts such as Mr. Thompson gives are invaluable in studying this problem. Writing under date of July 1, he says:

"I am in receipt of a copy of 'The Prohibition Question' compiled and published by the MANUFACTURERS RECORD publishing Company.

"It is the most gratifying and startling array of convincing facts that I have ever seen. I hope it may reach thousands of our influential citizens.

"It would seem clear that any one who has given the subject of the 18th Amendment thought, or watched its effect in all ways upon the life of our communities, must see its benefits.

"The results in Lowell are doubtless the same as in nearly all cities; our big jail crowded since 1836, closed two years ago—our 'poor farm,' hardly any occupants—our streets clean from a steady stream of drunkards—and our savings banks with greater deposits than ever before,—notwithstanding the depression—and an actual saving of our three millions of dollars spent annually in the bar-rooms plus the savings of the lost time of men who were drunk. These are a few facts on the economic side which should appeal to any loyal citizen. Added to this, the health of the city is better than ever before, according to our Health Board reports, and many families are enjoying such happiness as they have not known for years.

"You can render no greater service to the nation than to champion this cause in every way possible."

Lowell has a very large foreign-born population and yet despite this fact, this miracle of betterment has been wrought in that community.

Prohibition Has Done a World of Good.

Mr. J. H. Tice of St. Louis, Mo., writes: "I take this opportunity of expressing my views on Prohibition. It has done a world of good and I am for 'Bone Dry' at any price. It will be too, some day—after the department is rid of inefficient and crooked enforcement officers."

A TEXAS MAYOR VOICES HIS HORROR AT THE HERRIN MASSACRE.

O. H. Polley

Center, Texas, July 17, 1922.

Editor Manufacturers Record:

AS a subscriber and a reader of your fearless and valuable journal I desire to congratulate you upon your brave and eloquent stand for punishment of those blood-thirsty criminals and out-laws, who perpetrated such a heinous crime at Herrin, Illinois. This appalling, murderous and unspeakable crime not only disgraced the fair name of Illinois, but the whole United States. Had this occurred in the South instead of the North, we would have been branded by the Northern press as a brutal barbarous uncivilized people. Your editorials are, indeed, wonderful.

O. H. POLLEY, Mayor.

Doesn't Want a Failure Renominated.

MARSHAL KENNEDY, Secretary, Kennedy Machinery & Construction Co., Jackson, Miss.

For many months I have watched the "Kaiseristic" action of the Federal Reserve Board's Skipper, Governor W. P. G. Harding, as many another honest man has done who lacked the courage to voice the sentiments of the American nation and who could only be classed as an on-looker. But now that Governor Harding thinks there is a bare possibility of his re-election, I will stand up for my country as I did during the war and demand justice to the small country banks who cannot help themselves in any manner. As you so clearly put it in your editorial of June 8: "His incompetency has been overmastering. His conspicuous inabilities condemn him to future obscurity, not to further honors." This country has been like a sick man since the war and it takes time for a sick man to get well—but, just as he is getting over his illness, why allow him to have a relapse—why let Governor Harding ruin the banks of our nation again? I can't conceive the idea of any broad-minded, honest, intelligent American trying to re-elect the man who caused this country more trouble than it had had in years, and I believe that the nation as a whole voices exactly the same sentiments as I have voiced in this letter.

A Weighty Indictment.

[Post Express, Rochester, N. Y.]

The MANUFACTURERS RECORD in a powerful editorial by Richard H. Edmonds, a publicist of notable ability, opposes the reappointment of Governor Harding of the Federal Reserve Board as the man who more than all others has brought that great and splendid banking system into disrepute. To save what is good in the system, what is bad must be eliminated; and he indicts Governor Harding for conspicuous inability, overmastering incompetence and colossal blundering. No other country or century, he declares, shows a high financial official who so misconceived, misjudged and inaccurately and inadequately assessed a serious situation and permitted it to exist and to grow worse. His arbitrary and artificial policy strangled national prosperity in critical years, forced down Liberty bonds, practiced usury and utilized the infamous graduated interest rate to ruin country banks, waged illegal war upon them, as the United States Supreme Court has declared, permitted great bank palaces to be erected out of enormous profits taken from stricken industry and brought the Reserve System into such disrepute as made necessary a fight against its manifold exactions. The charge is directly made that this official has maladministered the system to the injury of the many in the interest of the favored few, that his policy is condemned by all other honest bankers who know the facts and dare to tell them, and that

he is out of tune with everything the President and his financial advisers stand for and believe.

Criticisms of such weight made by an economic expert of such prominence are likely, as would seem, to lead the President to survey carefully the field of possible successors to the Reserve Bank Governor; for it is unbelievable that this Alabama banker lifted out of obscurity by President Wilson is the best qualified, or the only qualified, man in the nation for the powerful position he fills.

Public Sentiment Must Be Aroused to the Menace to Our Government by Radical Labor Unionism.

Cherry Cotton Mills.

Florence, Ala., July 16.

Editor Manufacturers Record:

With all the earnestness that I have in me I wish to endorse and commend you for the stand you take regarding the hellish crime committed in the Herrin, Ill. mine massacre by Labor Unionism.

This is a fair sample of what I have been contending will happen to our country if Union Labor is allowed to dominate our government, national, civil and local as it seems to have done in the last few years. It means the downfall of our government as now constituted and the installation of a government like that of Russia. Public sentiment cannot be too strongly aroused in this country as to the real menace now confronting the people in the individual rights that each one has in choosing to work when and wherever he may get an honest job of work to do, and the sooner our constituted authorities see that each one is properly protected in this right the sooner will our country become the real free America it is supposed to be.

This government cannot endure much longer and wink at the things being done by and demanded by the radical leaders of union labor and every force of this entire government should be brought to bear even in the protection of one man anywhere who desires to engage in honest toil, if it should be necessary to properly protect him from being beaten up or murdered as has been done in so many instances already. Conditions now existing in this country are a shame and disgrace to our boasted claim of the most enlightened nation on the globe today. Truly we are falling into bad ways. We should put men in office everywhere from President of the United States down to the least official in any community who will see that our constitution and laws are upheld by every man or organization.

Your paper is the most true exponent of free America published anywhere in this country today. May its influence permeate to the core until this country shall become the home of the free in its full meaning.

M. W. DARBY.

Shall the American Flag Be Hauled Down?

St. Louis, Mo., July 14.

Editor Manufacturers Record:

Whenever a few criminals can get together and say when the commerce and mails of this country shall move, and when they shall not move, right then and there the flag that George Washington and your forefathers and my forefathers planted in the skies has ceased to function, and if thinking people and the law-abiding element does not take hold with a firm hand and start to punishing criminals instead of turning them loose, then that flag is going to come out of the skies.

On an average the courts adequately punish by law one criminal out of eighty-one and let eighty out of eighty-one go virtually scotfree. The lenient and farcical treatment of criminals by the courts of our country is the cause of the Herrin massacre.

CHAS. L. DELBRIDGE.

West Virginia Coal Production Might Reach 3,000,000 Ton Mark per Week.

WITH CAR AND ENGINE REQUIREMENTS FULLY MET, STATE'S OPEN-SHOP MINES WOULD ENORMOUSLY CONTRIBUTE TO NATION'S COAL NEEDS—STEPS TAKEN TO PROTECT ALL MINERS WHO WANT TO WORK—HEALTHY GROWTH OF PUBLIC SENTIMENT AGAINST LAWLESSNESS BY STRIKERS.

By ALBERT PHENIS

Charleston, W. Va., July 20.

With engines and cars to move the coal there would be a continued, steady increase of production in West Virginia, much beyond the 1,727,850 tons reported for the week ending July 1. Some authorities maintain that the present mining facilities of West Virginia, if fully employed, and given the cars and engines required, could easily show a production of 3,000,000 tons a week. This indicates the high rank of West Virginia as a coal producing state, and also emphasizes the importance to the country of having unhampered operations carried on here.

The attitude of the operators of West Virginia, indicated by resolutions in public meeting and by assurances in conference and private conversation, is that henceforth the coal industry in this state shall not again be subjected to the dangers of domination and disorganization by the United Mine Workers of America. It was this determination that kept the West Virginia operators out of the recent conferences at Washington. The experiences of West Virginia with the United Mine Workers have been too bitter and too costly to make possible any action by which this union will be again given the power and opportunities it formerly possessed in this state.

Through the check-off system a fund of some \$2,500,000 was made available for use in the Mine Workers' attempt to unionize the fields of Mingo county. Judge Anderson, of Indianapolis, held that that fact had been clearly established, as did other judges before whom hearings were held, and it was in furtherance of this determination by the leaders of the United Mine Workers that the three armed invasions of southwest West Virginia were undertaken, in 1919, 1920 and 1921. Using these utterly lawless and revolutionary methods to compel complete, state-wide submission to the dictation and control by the union, the coal industry of West Virginia finally realized the impossibility of continuing further relations with the Mine Workers' organization, which is today thoroughly discredited and reprobated in West Virginia. The operators, almost to a man, will not therefore allow themselves to be put into a position where contractual relations with the Mine Workers' officials might be required of them.

Eight hundred and eighty-two of the 1570 coal mines of West Virginia are in operation, so the operators of West Virginia are now and have been for some time carrying out President Harding's injunction to produce coal. All the operators of West Virginia require is a sufficient supply of cars and engines to enable them to keep their men employed. Due to the railroaders' strike, the car and engine shortage is steadily increasing. At the present rate of decline it would only be ten days or two weeks until stagnation ensued. The railroad strike, therefore, is a matter of much more present concern to the operators of West Virginia than the coal miners' strike. In the interest of accuracy, it is well that the country generally should understand the situation.

In the face of the car and engine shortage, those operators who have not yet resumed operations would undertake to do so if they were sufficiently manned. In spite of injunctions, there is intimidation at various places, and there are not enough peace officers to go around. Federal judges are appointing deputy marshals, Gov. Morgan has called on the sheriffs to see that operators are protected in their efforts

to mine coal, and the governor further announces that he will avail himself of President Harding's offer of Federal troops if they are needed for the miners' protection against violence and interference.

At the time of the first armed invasion of 1919 the state was practically without police protection. The war had disrupted the Home Guard organization, and in mining communities the small towns were as a rule not incorporated, so that there was no police department, nor was there any force outside the Federal troops that could be effectively appealed to in case of an emergency.

A Department of Public Safety had been created by statute in 1919, which became effective in July of that year, but it provided only for two companies of state police, a company consisting of 55 men and officers. This force was doubled in 1921, so that the department now has at its disposal some 220 men, who are under the direction of the Superintendent of State Police. These men are located at the direction of the Superintendent of Police, and some fifty are now stationed in Mingo county. With 55 counties in West Virginia, it is readily apparent that no very extensive police force can be assigned to any one county. But it is stated to be a noteworthy fact that these peace officers have adopted the policy of relentlessly running down offenders. The certainty of pursuit and capture is reported as having a deterrent effect, although all lawlessness has by no means been eliminated, and intimidation and even dynamiting and armed attacks, with resultant loss of life, are still matters of sufficiently frequent occurrence to demonstrate the lawless spirit which exists.

In 1921 the State Legislature accepted the Government's offer to furnish a National Guard to each of the states on certain conditions. Complying with these conditions, an adjutant general was appointed in August of that year, Col. John H. Charnock, an ex-service man, being selected for the position. An infantry regiment has been formed, with approximately one thousand men enrolled, 50 per cent of whom are ex-service men. This National Guard is subject to the call of the Governor or President. Primarily for national defense, they are yet available for any emergency that may arise.

With the outbreak of lawlessness and intimidation following the strike of April 1, the coal companies of West Virginia began to seek protection of the United States Courts, through bills asking for injunctions against violence, intimidation and interference with their operations. With the customary procedure of temporary injunctions, appeals, etc., the situation now is that practically all of the mines in West Virginia are protected by a Federal Court order, enjoining the United Mine Workers of America and their officers from every kind of interference. In some cases an order had been issued restraining the operation of the check-off system, but this was modified by decisions of the Court of Appeals, and the matter will come up for final adjudication at the trial of the cases, which will probably occur in the fall.

The injunctions as they stand today restrain the United Mine Workers from "interfering with employees of the coal companies, or with men seeking employment at the mines, by menaces, threats, violence or injury to them, their families or property, or by the abuse of them or their families, or from doing violence in any way or manner whatsoever or by doing

any other act or thing that would interfere with the rights of such employes, and those seeking employment, to work unmolested upon such terms as to them seem proper." And they are also restrained from injuring or destroying the property of the companies, or from urging others to do anything injurious to the conduct of the business or the management of the property. The officers and members of the union are also enjoined from trespassing upon the property of the companies and from inciting, inducing or persuading their employes to break their contracts of employment.

A great many arrests have been made on contempt charges in cases where the terms of the injunctions have been violated. A vigorous determination exists in most communities in West Virginia to stamp out lawlessness—witness the heroic stand of Sheriff Duvall in Brook County the other day where though he lost his life at the hands of the desperadoes, he and his deputies repelled an invasion of Pennsylvania United Mine Workers, who had started out to "clean up" an open shop mine—and it is proposed that all violators of the law shall be brought to trial as speedily as possible. Some convictions on charges of murder have already been secured, and it is not doubted that others will follow.

Later on will come suits for damages against the officers and members of the United Mine Workers, in accordance with the law as laid down in the Supreme Court decision in the Coronado case.

It begins to look as if a very healthy public opinion is being built up here against the lawlessness of labor unions—as if the fictitious distinction between murder by the members of a labor union and murder by some other kind of a criminal will not now be recognized by courts and juries in West Virginia. Not all the politicians nor all of the newspapers have discovered the trend of public opinion as yet, but there is nevertheless a very perceptible growth of the conviction that labor union domination and defiance of law have passed the danger line and must be curbed if our form of government is to stand. The fearless judge who upholds the law is vigorously commended; the officeholder who panders to the laborite mob is excoriated. These are the signs of the times.

A JUST DEFENSE OF WEST VIRGINIA.

The "Check-Off," Which Pours Millions Into the Treasury of the Union Officials, the Real Cause of the Strike.

Charleston, W. Va., July 14.

Editor Manufacturers Record:

Like millions of other Americans, I was shocked and stunned by the Herrin massacre and believe that the Government cannot move too quickly to take a firm and decided stand against a recurrence of such slaughter. Never has there been an excuse for wholesale murder.

West Virginia, prior to this butchery, has held the center of the stage for so-called "mine horrors." This is absolutely and emphatically wrong; and as a disinterested spectator I would like to give you some real facts on the matter.

Primarily, the cause of this strike is the "check-off." Most people do not understand the meaning of this phrase. It has nothing to do with the "check weighman" or does not affect in any manner the weighing of the coal. The "check-off" is simply this: Each week the labor union leaders furnish the operator with a list showing the dues owed by each man to the union. When the laborer receives his pay envelope, his union obligations have been deducted and the company turns this money over to the officials of the union. Recently the West Virginia operators have refused to sanction the "check-off," and as a consequence the radical labor leaders, who are the worst kind of parasites, feeding upon these good, honest, hard-working men, have seen the handwriting on the wall for unionism in West Virginia. If the "check-off" is

abolished, then open-shop will prevail. Open-shop is another term which is Greek to the average citizen. Open-shop does not mean non-union, but it gives a man his choice—his rights under the Constitution of the United States of "life, liberty and pursuit of happiness." In open-shop, theoretically, the union and non-union men can work side by side. Of course, under our present radical United Mine Workers' leaders, this condition is impossible.

West Virginia was lashed last year when an armed march occurred—but did it end in disaster? It did not. The right-thinking, law-loving men of this State rose in arms and held these fools at bay until the Government troops relieved them.

Just recently, in fact about 11:30 p. m., on June 29, the writer received summons to report at once to the Armory of Company D, machine gun company of West Virginia National Guard, of which he is a member.

Thirty minutes previous a telephone message had been received by the Governor that miners were planning a march on Dry Branch, West Virginia, where non-union miners are located. Governor Morgan immediately ordered out all the State Police in the vicinity and Company C (infantry) and Company D (machine gun). At 2:30 a. m., June 30, these men climbed into automobiles and 2:30 a. m., these companies were moving into position near Dry Branch. This prompt action prevented a duplication of the Herrin incident, forestalled any armed march and showed to everyone that West Virginia was ready, and instantly ready, to defend her lives and property.

I am not a native of West Virginia, being born and living all but three years of my life in Pennsylvania, but this is the State of my adoption and it makes me boil when she is maligned.

Just a few facts for the public, concerning the coal industry:

Does the public remember the strike in President Wilson's administration, when he gave in to the union? During the coal famine which preceded the settlement, what kept the wheels of this country moving? It was West Virginia coal.

What is preventing a fuel shortage right now, when these radical red labor leaders refuse to compromise? It is West Virginia coal.

Does the average man know that the West Virginia miner is better paid, better clothed, better fed and better housed than the unskilled laborer in any city in the world? Does he realize that during the high prices these men averaged from \$75 to \$150 per week for their labor? How many men know the real conditions in the non-union field—that the little mining towns have splendid houses, good water, light and heat and amusements, churches and schools? That the best equipped hospital in West Virginia is owned and kept up by a coal operator?

Instead of being damned, West Virginia and its coal industry should be praised, because it stands like a rock between the manufacturer and a coal shortage.

JESSE H. WHITELEY.

\$550,000 in Oklahoma Road Contracts Let.

Oklahoma City, Okla., July 22—[Special.]—The Department of Highways, has awarded contract to John W. Rooks, McAlester, for construction of five sections of Federal aid highway totaling 51.249 miles known as Project No. 40. The cost of the five sections will be approximately \$550,000. Construction will be under the supervision of the State Engineer.

Salt Production in 1921.

The U. S. Geological Survey reports that the production of salt in the United States in 1921 was 4,981,154 tons, valued at \$24,557,966, a decrease of 27 per cent in quantity and 18 per cent in value as compared with 1920.

Edison's Proposed Plan for Financing Agriculture.

[Whatever Mr. Edison does or proposes, always commands the attention of the American people, whether they always accept his views or not. For months, Mr. Edison, laying aside all other interests, has concentrated his study upon some of our financial problems with special reference to the financial needs of agriculture. So great has been the interest aroused by the knowledge of this fact that we give in full the following statement sent to the Manufacturers Record by Mr. Edison as to his plan and his notes thereon. We will publish next week a remarkable confirmation of the feasibility, in cotton at least, of what Mr. Edison proposes. This has been successful on exactly the same lines laid down by him and of which he probably has never heard.—Editor Manufacturers Record.]

By THOMAS A. EDISON, Orange, N. J.

Some months ago Mr. Ford asked me to see if I could not invent some plan for helping the farmer. I have approached the matter in the same way that I do with a mechanical or other invention, namely, get all the facts as far as possible, and then see what can be done to solve the problem.

The development of this proposition has been made in two parts, namely, "The Plan" and "Notes." In the latter I have made a few observations about the amendment proposed and also a few disjointed remarks about money.

The Plan.

1

The Government of the United States might establish sectional concrete warehouses, equipped with the most modern machinery for handling, loading, unloading and grading; and, in addition, provided with an automatic sprinkler system to reduce any damage to the stored contents due to the action of fire.

2

The plans of such warehouses shall be obtained by public competition. These warehouses shall consist of an administrative section and a power station. Added to this nucleus are the storage sections. At first, one or two sections are to be constructed. Provision should be made for the erection of additional sections so that the entire plant will be sufficient to warehouse all the permissible commodities which may probably be offered from the area in which the warehouse is to serve.

3

All such warehouses to be built by contractors in open competition, the Government guaranteeing the contractor against any unforeseen physical obstacle not known at the letting of the contract; all work to be done under inspection of Government engineers and checked by travelling inspectors. Three-fourths of the actual money expended, after certification by the Government engineer, to be paid to the contractors each month for the work done in the previous month.

NOTE:

Guaranteeing against unforeseen obstacles and the monthly payment will insure low prices for construction.

4

These warehouses are to be constructed of reinforced concrete poured in forms. The Government will furnish the steel forms into which the concrete is to be poured, and also all the necessary machinery of the most approved and latest character for handling forms and concrete, for which it will make no charge to the contractor. The contractor, however, is to be responsible for any breakage, of, or injury to, such forms or machinery that may occur while carrying out his contract. These contracts shall contain the usual provisions and guarantees as to the financial and technical ability of the contractor to carry out his agreement.

5

Congress to authorize, at first, the building of six one-section warehouses in the cotton states and six one-section warehouses in the wheat states. These to be operated over a satisfactory period of time and to form the nucleus of a very extensive creation of Government warehouses throughout the United States—adapted and used for the storage of approved necessities of life for limited periods of time.

6

No commodities are to be allowed storage facilities beyond a period of one season. Any commodity not removed at the expiration of this period may be sold at auction, or by tender, or otherwise, at the option of the Government. The proceeds, after deducting what is due to the Government, to be placed in a national bank, subject to the claims of the original owner.

7

The administration of the warehouses to be under a single Government officer appointed under civil service rules and held entirely responsible for the working of the warehouse. The actual physical operation of the warehouse is to be carried out through a contractor obtained by open bid, such contract to last for one year only. Each year new bids must be made. The contractor not to be incorporated. The bills of the contractor, after approval by the Government official in charge, shall be paid monthly. The clerical labor necessary for administration shall be let out to public auditing concerns by competitive bids; the salaries and expenses to be paid monthly in the same manner as the contractor.

8

All such warehouses are to be located at the most favorable points for shipment by railroad, or water, or both, and room provided to add sections of warehouses to meet all reasonable future requirements in the area served.

9

The Government is to form a company which shall operate these warehouses. All the stock of such company should be owned by the Government. The object of this is to create a legal personage or defendant that may be sued in a Federal Court should any person have a claim that for any reason required adjudication.

10

The money to build these warehouses is to be raised by taxation. The price to be charged for storage is to be on a universal basis for everyone, and to be made up of four items, viz:

1. Actual cost of loading, unloading, grading, etc.
2. Allowance for depreciation on warehouse machinery, etc.
3. Insurance.
4. An extra charge to form a sinking fund to return cost of construction.

11

The entire operation of these warehouses should be closely inspected, as to quantities and kinds of commodities graded, by travelling Government inspectors, under the control of the Treasury Department at Washington, or a Government commission. The accounting department shall undergo the same scrutiny by simple inspection.

12

Upon receipt of any commodity, and after proper weighing, a preliminary receipt for the same is to be given. It is then to be manipulated, or graded, and three sets of sealed samples taken; one being given to the owner and two being kept by the Government. The Government will thereupon issue a receipt in duplicate for the commodity; one receipt setting forth the quantity and grade of the commodity. The other recites the same thing, and, in addition, gives the holder the right to receive in Federal Reserve currency, at any national bank he may choose, 50 per cent of the average value of the commodity as determined by the prices over a

period of 25 years, without any charge, other than cost of service and a contribution to the sinking fund. For this the bank may make a definite charge for obtaining the currency from the district Reserve Bank. The duplicate receipt is kept by the owner and contains his equity over and above the loan of 50 per cent. This duplicate is available for a loan at a national bank or it may be sold on the exchanges, or held by the farmer until he desires to sell. Both certificates may be split up in fractions at the pleasure of the administration.

13

After twelve preliminary warehouses for cotton and wheat have been built and operated, and the plan is found satisfactory for building up a safe basis for our money system, the twelve cotton and wheat warehouses can be extended by adding more storage units already provided for in the original plan, and other warehouses can also be built in desirable areas to accept other commodities for storage and the issuance of loans thereon. In addition, warehouses belonging to private concerns may be bought, if fireproof and capable of being operated economically.

14

The following commodities may probably be acceptable:

Cotton, wheat, barley, rye, hay, oats, buckwheat, flaxseed, flax, rice, American sugar, cloverseed, wool, peanuts, onions, soy and lima beans, cow peas, Porto Rico coffee, linseed, linen, almonds, English walnuts, pecans, cheese, tallow, lard, hams, bacon, rosin, bituminous coal, prunes, dried apples, dried apricots, raisins, degerminated corn.

As our experience increases other articles could be added should the requirements of our expanding business require a greater amount of base commodities, and the farmer requires more storage accommodations.

15

All commodities to be eligible for storage must originate in the United States or its dependencies, and must be subject to storage *and* mortgage, and not for storage only.

Notes.

A.

In the administration of this system it might add to the convenience of the farmer, purchaser, exchange or bank, to have all commodities standardized as to quantities, or units, like stock certificates; the usual stock certificate unit being for 100 shares. In like manner, 100 bushels might be the standard unit adopted for wheat, etc. where such products are measured in bushels, or that equivalent in metric measurements.

B.

The Federal Reserve money so issued on a warehouse commodity will buy and is exchangeable at all times for any other commodity in the warehouse as far as the loan is concerned. All the variation as to prices is relegated entirely to the equity certificate, the price of commodities varying according to supply and demand, in some cases, and, in other cases, to an impairment of the value of the currency through an excessive sale of doubtful credit.

C.

Should bituminous coal be given storage it would cure a great evil, by giving continuous work to the miner. This would give the miner a much larger yearly income at a very much lower wage, thus greatly cheapening the cost of coal. It would insure the railroad and industries of an even supply of coal and serve to prevent to a great extent the periodic disturbances we now have, as the Government would control the situation by the storage of 150 million tons, and prevent many bad features in mining, which go towards waste and overproduction of coal. Bituminous coal cannot be stored properly except under water as it gradually loses its gaseous combustible matter and is very liable to catch fire spontaneously.

D.

Coal storage pits 1000 feet long and perhaps 80 feet wide, 20 feet deep, could be dug with sloping banks to the angle of quiescence, and the sides and bottom lined with concrete. There might be a double track on each side, with two or more cranes provided with clam shell buckets for loading into cars. For unloading into the pits a travelling crane, with track, could carry the cars as received from the mines and dump them into the pits. It would only be necessary to have a few Government officials in each district and a chemical laboratory to grade the coal, with checking inspectors travelling from one storage area to the other and frequently changed. All operating should be done by contractors by bid. Fifty per cent of the average cost of coal of the same qualities in the different areas, ascertained as substantially correct over the past 25 years, would enable the mine operator to carry the coal at a low figure when he is given his storage certificate; everybody would be assured, for one year, of his coal requirements of the quality he desires. The equity certificate could be used at the banks for further loans, or sold.

E.

It would simplify matters very much if gold were denied coinage in United States coins. (We do not use gold coin, and foreigners prefer bars). The mint might deliver gold bars in metric measurements of different sizes, and this gold could be warehoused; fifty per cent Federal Reserve currency being loaned on its value as determined over the 25 year period. Silver could be treated the same way, all our foreign trade balances being paid, if required, by using this particular commodity in bar form. A person needing the gold for shipment could buy a vault certificate for, say 10 kilos of gold bars, present this, together with Federal Reserve notes obtained from the original loan and would obtain the gold. If a person wanted to ship 10,000 bushels of No. 2 wheat he could buy the equity certificate on the produce exchange and presenting it, together with currency or certified check and could order the warehouse to ship the wheat. He would know that the wheat was of the grade called for by the certificate.

F.

In this system the requirements of currency would be very great and rather sudden in the case of the cereals as they ripen from Texas to North Dakota and the requirements would be exactly met. The contraction would be fairly slow, being spread over the crop-year, but it would contract exactly in quantity as it expanded, so it is not likely there would be any disturbance in the expansion and contraction of money in this connection. On the other hand, it meets one of the conditions of a good currency. As to the currency representing an oversale of credit, that is another matter, far more complex and not within my present study.

G.

The reason for having the actual physical operation of these warehouses accomplished by private contractors is to attain a higher efficiency and lower costs than is possible by the use of Government employees, and for other good and sufficient reasons known to business men.

H.

The advantage to the farmer of the warehouse system is that while his neighbor the gold miner can bring in his commodity and get full value, any attempt of the farmer to attain parity is met by a glut and a lowering of the price of his commodity which is equal if not superior in value. With this system the farmer's necessities are relieved by effecting a loan for half the value of his commodity; so he can market evenly over longer periods, and probably get a higher price. All these advantages he gets without having to pay interest on half of his product. His neighbor the gold miner pays

no interest, and why should not the farmer be relieved, at least partially, in this respect. Another advantage of the farmer, which is more true with the miner, is that he gets his wheat graded and receives the residue, which I am told is of value, and he gets this at nearly cost. His grading being done by the Government, is prime and the split is finer grading than now in vogue. I am also told by the farmers that there are various practices in vogue whereby the grading, etc. is used for profit by others, causing suspicion and irritation.

I.

With our present customs it is probable that speculators perform a very useful function in giving stability to manufacturing by permitting them to enter into future contracts with a guaranteed cost of their raw material. But this is no reason why speculators should be unduly paid for their services and risks as it nearly all comes out of the farmer in the end if he wants to market through them. By this plan the farmer will receive several cents more per bushel than he gets now. His carrying charges will be small. The country will have just as good a basis for its currency as it now has on commercial credits and possibly in the future, when the world's business enormously increases, this basis will displace gold as backing commodity with countries like France or England, and our proposed system would release more gold commodity for foreign trading. In other words, it may be we could ship Government graded wheat and cotton to pay balances in many cases where we now ship gold bars, which, at times, is undesirable.

J.

In normal times our currency is backed by gold to a certain extent. If our own people buy an excess of foreign commodities, our gold hoard is diminished and this disturbs the stability of our currency in the minds of many people. It is sometimes serious, as in 1890-1893 when 100 millions of gold was thrown into our hoard by Morgan to save the situation. This allayed apprehension and the panic diminished, but it was rather humiliating for 100 million people to have had such a vulnerable system of money. With other commodities equal or superior in quality to the single gold commodity, this situation is not very likely to occur if we keep a liberal supply of our international commodity in the form of gold bars. The loss of the whole would not raise fears if our internal currency was backed by quick moving commodities at twice their value.

K.

There seems to be a considerable misunderstanding among farmers as to the function of a national bank, conducted strictly on banking principles. They cannot see why those banks cannot loan on farms as security. This is easy to explain. The reason is that most of the money in a bank belongs to the depositors, who, in case of trouble, can demand that it be immediately returned to them. Hence, a national bank loans at its peril on farms as security. This is a function of a land bank, private banker, capitalist, or investor. Lending money on the actual product of the land is quite a different matter. The Federal Reserve bank permits a national bank to loan a per cent of its own capital on long term farm mortgages. This does not seem right.

L.

The Federal Reserve Bank, in its operation, is copied largely from the Bank of England. It seeks to regulate the volume of money based on credit when credit is oversold, or impaired, and this it does by raising the rate of interest which it will charge the national banks for lending currency on their commercial paper. This raising the rate of interest is a storm signal not well known to the general public. The higher the rate of interest the more conspicuous the signal. Banks reduce their sales of credit. Some manufacturers diminish their activities, men are discharged, others offer

goods at lower prices and glut the market. After a while there is a reduction of currency. After this goes on for a while then workmen who do not use banks seemingly, all at once, like a wave, conclude that there is danger of being laid off. Then comes a very conspicuous contraction of the currency. Fifteen million of "stocking banks" start doing business, the workman receives as pay, say, \$30. Only a few of the bills are of large denomination. He deposits in the "stocking bank" the one and two dollar bills, which is all he can spare at a time. Then we have a shortage of small currency. Unfortunately these stocking banks keep open for business a long time. This method of stopping over-lending, (a creation of doubtful credits), if not checked would, in time, lead to a great disaster but the remedy itself is rather severe. In the case of the Bank of England it has been generally successful in averting disaster, but twice it failed to work and on another occasion it worked only partially. It seems this method is open to improvement. Improvements in the banking technique and more frequent examinations of discountable paper, together with a continuous discard of doubtful paper offered for rediscount to the Federal Reserve Bank, might be an improvement on the English method of raising the rate of discount.

M.

When the amount of credit money passes a certain limit, any extension generally results in impairing its soundness. Prices rise, not in real money but in impaired money. People do not understand this. The result is extensions and investments and increased production. We attain a fictitious prosperity but a limit is eventually reached. The people who control the money machine become aware that the limit is approaching and that if something is not done to eliminate these excessive impairments of credit there will be a great disaster. They start in to stop the creation of more bad credits and cause liquidation of those already out. Then we have contraction. The value of the currency rises and we have lower prices while the bank optimism is somewhat to blame. Labor with impaired currency of lower buying power strikes for high wages, because the demand for labor rises. This of itself would not be out of the way but labor forces wages beyond reason, also slacks up and lessens its efforts to produce, and this is as bad as impaired credits. Overproduction takes place, sales slow up, men are discharged, and then, as stated previously, the fifteen million "stocking banks" open up and we have still more contraction. The depression is now in full swing.

N.

With the warehouse system added to the present Federal Reserve System all our currency will be redeemable either (1) in a gold commodity on demand, or (2) in a mortgaged warehouse commodity CANCELLED on demand. One is as quick as the other, except the delay in handling the more bulky commodity of the warehouse. The warehouse money is produced from the Government loan through its Federal Reserve System on commodities in its own possession and with the margin of safety that is usual with mortgages. In this case it is not obtained by the estimate of an expert whose judgment may err, but by the average of the price actually paid over a period of 25 years, one-half of the value so found being the amount loaned. It can be 40 per cent if thought best, but it should be the same percentage on all articles stored.

O.

Generally our currency is based on the principle, normally, that by putting one ounce of gold in a vault you can issue currency calling for two or more ounces on demand. This works, but in the course of the centuries it has failed many times. It would be more scientific to have an ounce of gold back of the currency calling for an ounce. Then when a panic occurred we could issue large amounts of currency and

people would accept the extra amount, which is proven by the fact that they do it now. The same currency issued on commodities in warehouses has nearly twice as much value of commodity deposited as is represented by the currency issued. The advantage of that part of the currency that is issued by the warehouse is: That it does not vary in value, all the capacity for variation in value being transferred to the deposit certificate, whereas that part of the currency which is issued on gold varies with the market value of gold bars and through the changeable value of the currency itself. The advantage of the warehouse wealth is that all men can eat most of the stored items and they are not cumulative. The advantage of gold commodity is that it is international and small in bulk and easily transported, and all people accept it.

P.

The warehouse system is to permit the farmer to sell his commodity throughout the crop and make it unnecessary to dump it on the market all at once. Therefore, the administrative rules will prevent the farmer from speculating by holding his commodity. He must liquidate a portion every month, and cancel his loan to that extent.

Q.

Under the present Federal Reserve Bank system the Government furnishes to the banks the printed money upon which they handle trade and perform service and collect fees. These fees are collected under the name of "Interest." The banks themselves also pay interest to their depositors, and require interest on their own capital stock. Why should not the Government advance money to its own warehouse system and charge for service performed? The Government stores and the bankers move notes discounted by a bank on the credit of the merchant and manufacturer, based on a completed barter of actual commodities. This is one of the safest backings of paper money. But the banker is safer when the credit feature is removed and the commodity itself is in a Government warehouse, graded and obtainable on demand. In other words, the banker takes no risk, the principal is safe and his profits net, even in a panic. It is quite likely the Government will furnish currency and the Federal Reserve Bank will discount all the notes presented by the banks based on actual commodities in the Government's own possession. The Federal Reserve Bank might even extend its practice of discounting three months notes only, to several months under these conditions.

R.

If anything like this plan is favorably received it could be introduced, without any disturbance, by an amendment to the present Federal Reserve Bank Act. Any change whatever which affects 100 million people *suddenly* produces great losses until they have rearranged their affairs in line with the change.

S.

The history of all the waves of prosperity and depression since the birth of banking systems shows that they have been accentuated by banks loaning to manufacturing and at the same time to agriculture. These are incompatible and no banking system can probably ever be devised that can take care of both simultaneously without these oscillations. Agriculture has one turnover. Manufacturing has many.

One turn over (Agriculture) must have long term loans. No banking system can stand that. No system which loans out its deposits, payable on demand, should finance a farmer. It is fatal to stability.

The plan here described will permit the financing of the farmer by his own commodities, the currency issued to him being the common currency of our present Federal Reserve System. This currency at present is payable in gold. When more is issued through the warehouse system directly by the

Government it will still be payable in gold and also redeemable in commodities at fifty per cent of their value. In other words, it is a mortgage on the commodity just as an insurance company loans to the owner of a house and lot fifty per cent of its appraised value,—after its value has been appraised. These mortgages are considered the safest of loans.

The warehouse loan is even safer. The Government obtains its appraisal by taking the average prices at which the commodities have sold over a period of twenty-five years under the workings of a gold backed system of bank currency—and the result is the average value. It is not the gold; it is the results produced by the workings of a gold based currency for twenty-five years. Once the commodity is appraised then, like the insurance company, the Government makes a loan of fifty per cent of the appraised value, but, unlike the insurance company, the farmer's loan can be cancelled on demand even the next day. But the limit is one year, and both at the option of the farmer. He no longer needs to glut the market.

This plan introduces for the first time a new method of banking, capable of extensive introduction, and assuring absolute security and worth to the Government and to agriculture.

There is no credit or promises introduced. The currency varies in exact proportion as it is needed and it contracts exactly as the commodities move.

Removing these violent changes in demand for currency on account of the season the commercial bank is relieved of these strains and disturbances.

Competition of Indian Mica.

A feature that renders it almost imperative for the American mica producer to develop more efficient methods is the competition with cheap Indian labor, according to the Bureau of Mines. Labor costs in India are exceedingly low, and it is difficult, therefore, for Americans with their higher standards of living, and consequently higher wages, to compete successfully with the Indian product. Mining methods in India are very crude and laborious, and it is only by taking advantage of superior methods that America can hope to succeed. Wages being the chief costs feature, it is important to so modify mining methods that more mechanical equipment may be employed, for the production per man per day may thereby be greatly increased. The continuance of the industry may depend to a considerable extent on the development of deposits in a more systematic manner through the activities of large organizations having competent engineers who not only understand the mining but who understand mica and a tariff.

Oil Field Emulsions.

D. B. Dow, chemical engineer of the Bartlesville, Okla., experiment station of the Bureau of Mines, has made laboratory tests to determine the characteristics of different oil field emulsions and to discover, if possible, the relation between the oil contained in the emulsion and the original crude. It is believed, says the Bureau, that it will be necessary to determine the effect of such factors as the viscosity of the crude, the relative percentages of oil and water, the salts contained in the water, and the possible presence of other emulsifying agents.

Contract Let for Store and Office Building.

Richmond, Va., July 24—[Special.]—James Fox & Sons of this city, have the contract for erection of a store and office building for the Medical Arts Building Corporation, after plans by W. Bernard Bates, architect, of Richmond. The structure which will be of brick with terra cotta trim, 50 x 120 feet, will cost approximately \$200,000.

Port Development at Jacksonville Progressing Along Comprehensive Lines—Big Plans Under Way for Expansion of Shipping Facilities.

Jacksonville, Fla., July 22—[Special.]—More than ever the entire City of Jacksonville is interested in the rapid consummation of plans for municipal port facilities which will add greatly to the already existing piers, warehouses, and mechanical devices that form a part of the municipal dock and terminal property located at a most strategic point along the waterfront and consisting of the various essentials for the receipt and distribution by rail and water of all kinds of bulk and general cargo.

The Jacksonville city commission is considering a recommendation for the expenditure of approximately \$1,225,000 to provide a new pier 1000 by 350 feet, an additional cotton warehouse, a transit shed, 810 by 100 feet, and the general rearrangement of rail facilities. Bids will be asked for this work in the near future. In addition to actually providing such facilities, the port is pursuing a progressive policy to attract cargo from interior points for movement through Jacksonville and a well-qualified freight solicitor is kept actively at work among shippers of the South Atlantic states and the Middle West, encouraging handling of commodities to markets of South America, the West Indies and other ports.

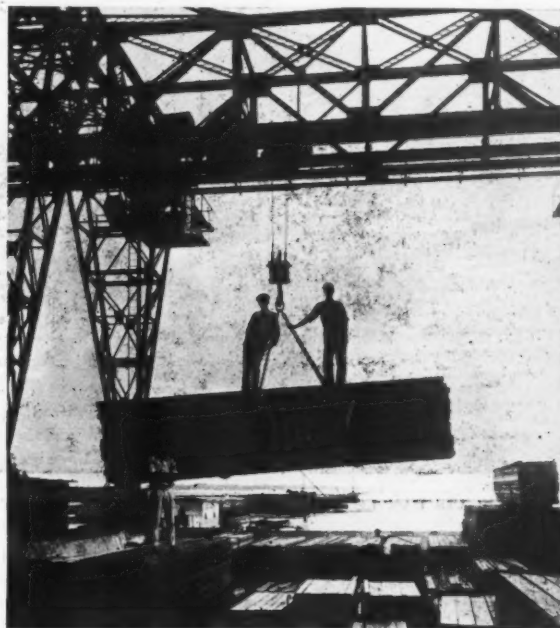
There are vast areas of open yard space for the assembling of lumber, crossties, naval stores, steel and iron products, vitrified brick, tile, pipe, etc. One open pier is used for storing such commodities against the vessels' arrival, being 1000 feet long and 260 feet wide. The main floor of the pier is paved with vitrified brick set in cement. Four railroad tracks run its entire length, and a 6-in. water main encompasses it and provides fire plugs for fire protection.

Pier No. 2 is of the same length and upon it have been constructed two warehouses of structural steel, with sides and roofs of galvanized iron, each 73x800 feet. Thirteen openings are provided on each side of the warehouses and one on each end, and these openings are closed by rolling steel doors. From the floor to the eaves these warehouses are 26 feet high. Each of the piers will accommodate seven average size vessels at one time.

A reinforced concrete warehouse with nine storage compartments separated by automatic fire doors is provided. In the compress room are installed a Webb high density and a Southwark 450 ton press. The entire building is fitted with a sprinkler system while outside there are six fire plugs. The docks and terminals are lighted by electricity, current being furnished from the municipal power plant adjacent.

Owing to the good fire protection provided, insurance rates on cotton are exceptionally low.

Big fuel oil terminals are located here, the storage facilities totaling 1,050,000 barrels. Receipts of oil average between 375,000 and 425,000 barrels per month. The Standard Oil Co., The Gulf Refining Co., The Texas Co., The Mexi-

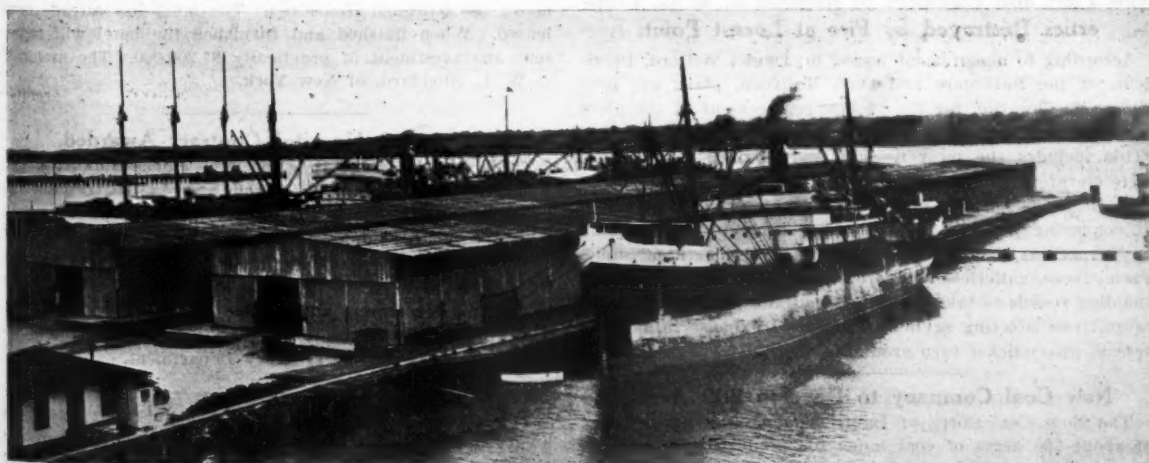


ELECTRIC CRANE TRANSPORTING LUMBER.

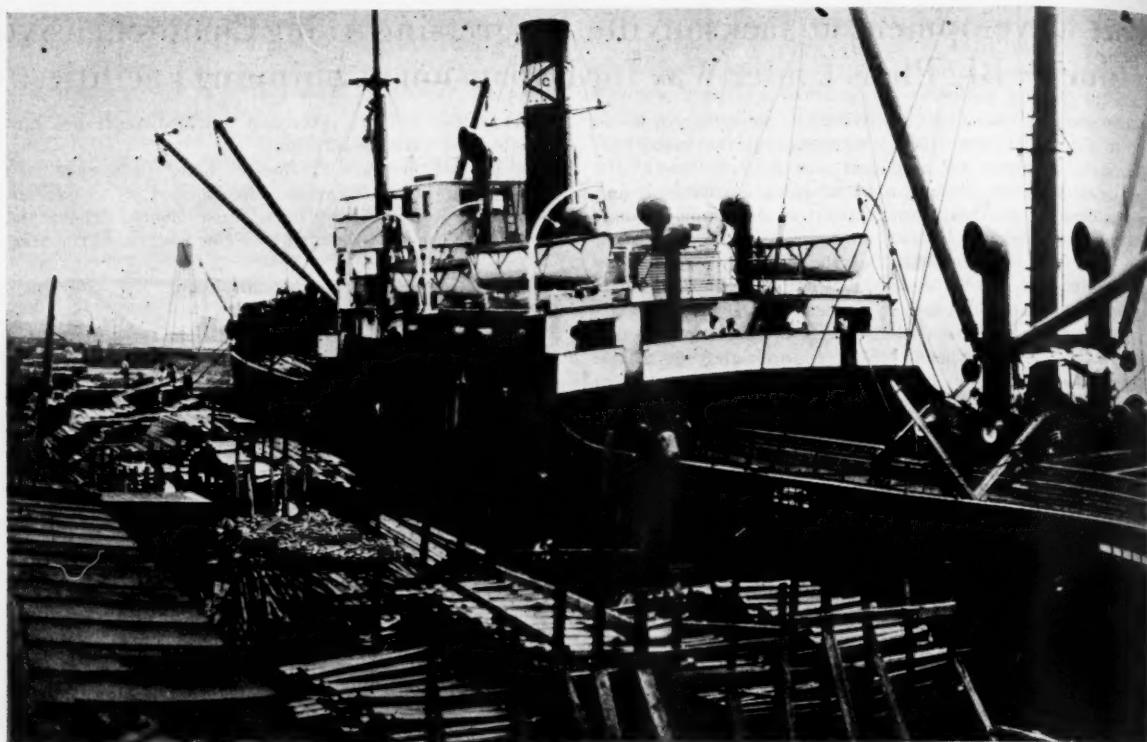
This is part of the complete equipment in use at the Jacksonville piers and terminals.

can Petroleum Corp., The Sinclair Refining Co., and several smaller concerns have fuel oil terminals here.

The greater portion of all naval stores is handled by the Commodore Point Terminal Co., whose wharves and terminal space cover 135 acres. There are accommodations for berthing ten average size steamers at one time. Over 40 acres are devoted to a naval stores yard with a capacity of



TWO WAREHOUSES 73x800 FT. EACH HAVE BEEN BUILT ON THIS BIG PIER, WITH LOADING PLATFORMS 30-FT. WIDE, AND SERVED BY THREE RAILROAD TRACKS.



SEVEN BOATS CAN LOAD AT ONE TIME FROM THIS 1000x260 FT. PIER. IT IS UTILIZED FOR HANDLING LUMBER, TIES, ROSIN, TURPENTINE, ETC.

200,000 barrels of rosin and 50,000 barrels of turpentine. Electric trucks are used for quick movement of products. Besides a two-story turpentine shed, 135 by 800 feet and eight turpentine tanks of 36,000 barrels capacity, there is a general merchandise warehouse 60 by 500 feet.

Five great trunk line railroads—the Atlantic Coast Line, the Seaboard Air Line, the Southern, the Georgia, Southern & Florida, and the Florida East Coast have terminals in Jacksonville. Besides the property it owns the municipality has a long time lease on another piece of water front property. The frontage on the St. John's River of bulkheads and piers covers one mile and there is a depth of water of 30 feet and a channel of similar depth to the sea.

New Piers and Elevators to Replace B. & O. Properties Destroyed by Fire at Locust Point.

According to a statement issued by Daniel Willard, President, of the Baltimore and Ohio Railroad, plans are now under consideration for the prompt replacement of the piers and elevators destroyed recently by fire at Locust Point. "This includes the most modern and up-to-date steel concrete elevators obtainable," says the announcement. "One of the distinctive features of the new elevators will be a series of conveying galleries, leading from concrete storage bins to the merchandise piers running the full length of same. From these galleries will project loading legs or chutes enabling vessels to take on grain simultaneously with general cargo, thus effecting saving of time and expense in shifting vessels, also quicker turn around."

New Coal Company to Develop 200 Acres.

The Nora Coal Corp., of Dante, Va., plans a development of about 200 acres of coal lands for production of approximately 350 tons of coal daily. James W. Gerow, Dante, Va. is interested in obtaining bids on the necessary rails and accessories, mining cars and necessary mining equipment.

Contract Awarded for Hotel at Charlotte to Cost Complete About \$1,200,000.

Charlotte, N. C., July 24—[Special.]—The J. A. Jones Construction Co. of this city, has been awarded contract for erection of the Citizens Hotel on a bid of \$713,480. The structure will be of steel frame finished with face brick and granite and terra cotta trimmings with polished granite base.

Bids on mechanical work, including heating, electrical and plumbing installation will be received about August 1. The structure will contain 254 rooms, being 12 stories high, with two entrances, one on Trade Street and another on Poplar Street. The lobby will be in the center of the building 50x90 feet and in the rear will be a ballroom 35x100 feet. Plans have been prepared so that an addition of 122 rooms can be built above the ballroom if desired. The hotel has already been leased. When finished and furnished the hotel will represent an investment of practically \$1,200,000. The architect is W. L. Stoddard, of New York.

\$800,000 Hospital Contract Awarded.

St. Louis, Mo., July 24—[Special.]—James Stewart & Co., this city and New York have been awarded contract for the group of buildings for the United States Veterans' Hospital, which without equipment, will involve an expenditure of approximately \$800,000. The buildings just let to contract total seven and will be of concrete, frame, tile exterior and cement plaster stucco, with asphalt roof, yellow pine floors. The work will be carried on under the direction of the supervising architect of the Treasury Department.

The George A. Fuller Company, New York City, have been awarded the contract for erecting a \$125,000 structure for the First National Bank of Sanford, Fla. It will be 50x117 feet, 6 stories high, and after plans by Mowbray & Uffinger, architects of New York.

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Kentucky's Strawberries Worth \$600,000 This Year.

Louisville, Ky., July 22—[Special.]—Kentucky is forging ahead as a strawberry producing state, and the season just closed eclipsed all previous years in production since the industry was started here. It is estimated that more than four million quarts of strawberries were shipped from Warren, Simpson, Barren, Hart, Christian, Todd and McCracken counties, representing a money value of about \$600,000, and requiring the use of approximately 500 cars. The marketing was conducted on the co-operative plan, and coming in as it does between seasons and other agricultural activities, the money realized from the strawberry crop is especially helpful to the growers.

Transmission Losses of Natural Gas.

As a part of the efforts of the Bureau of Mines to conserve the supply of natural gas, arrangements have been made with different gas companies for obtaining data on losses of gas by transmission. An outline of a new manual relating to the use of natural gas in the home has been prepared. The manual will discuss in a popular way the difficulties encountered in the production and transmission of natural gas, the diminishing supply and the necessity for conservation. This work, which is being done by R. A. Cattell, natural gas engineer, is in co-operation with the Natural Gas Association of America.

\$1,000,000 Bank and Office Building for Tulsa.

Tulsa, Okla., July 24—[Special.]—A \$1,000,000 bank and office building will be constructed here by the Exchange National Bank, which when completed will give a building three times as large as the present unit. The completed structure will be 140x165 feet, 12 stories high. The first portion of the building was erected in 1917, and is 90x90 feet; the addition contemplated is 90x75 feet. Weary & Alford Co., 1923 Calumet Ave., Chicago, Ill., are the architects.

To Erect Store and Hotel Building.

St. Petersburg, Fla., July 22—[Special.]—H. E. Wendell, architect of this city, has completed plans for a \$150,000 store and hotel building to be erected by J. N. Brown. The contract will be awarded this month for the structure, which will be 65x100 feet, 7 stories high, with basement, of steel, concrete and brick, containing 108 rooms, each with bath, in addition to four stores.

Jefferson Parish to Expend \$400,000 on Schools.

New Orleans, La., July 22—[Special.]—Five school buildings are to be erected in Jefferson Parish at a cost of nearly \$400,000. The buildings are to be located at Kenner, Westwego, Harahan, Gretna and Metairie Ridge. Emile Weil and William T. Nolan, architects of this city, have been chosen by the committee headed by Geo. A. Cox.

Talc and Soapstone in 1921.

The production of talc and soapstone in 1921 showed a great decline as compared with that in 1920. The quantity sold was the smallest since 1908 and was about 40 per cent less than the average for the five preceding years, according to the United States Geological Survey. The total quantity of talc and soapstone sold in 1921 was 126,000 tons, valued at \$1,821,000, as compared with 211,000 tons, valued at \$3,035,000 in 1920. This represents a decrease of 40 per cent in both quantity and value.

The production and value by States was as follows: Vermont, 48,648 tons, \$438,534; New York, 41,937 tons, \$530,154; Virginia, 17,721 tons, \$601,878; California, 8,233 tons, \$128,188; Pennsylvania and New Jersey, 7205 tons, \$76,912; North Carolina, 731 tons, \$17,048; Georgia, Maryland and Massachusetts, 1959 tons, \$28,737.

Production of Clay in 1921.

The output of clay mined and sold as clay in the United States, in 1921 was 1,716,746 tons, valued at \$6,025,300, or \$3.51 per ton, according to the United States Geological Survey. This was a decrease of 45 per cent in quantity and 48 per cent in value as compared with 1920. These figures represent only clay sold as clay by the original producers; they do not include the much greater quantities of clay burned into clay products by the producers themselves.

The production of kaolin, the clay that is used in making high-grade pottery and porcelain as well as paper and other products, was 162,726 tons, valued at \$1,579,163, a decrease of 39 per cent and 45 per cent, respectively, as compared with 1920. The clay of largest production and value is fire clay. The sales of fire clay in 1921 amounted to 1,195,861 tons, valued at \$3,560,373, a decrease of 49 and 52 per cent respectively, as compared with 1920. The output of every kind of clay as classified by the Geological Survey in its statistical report, decreased in quantity and value in 1921 as compared with 1920.

The imports and exports of clay also decreased in 1921 as compared with 1920, and the decrease was proportionally greater than the decrease in the domestic production. The total imports of clay were 208,915 tons, valued at \$1,974,685, a decrease of 48 per cent and 51 per cent, respectively. The imports of kaolin, the chief clay imported, were 162,906 tons, a decrease of 55 per cent as compared with 1920.

Japan Expected to Use More American Cotton.

New Orleans, La., July 22—[Special.]—According to a representative of the Oriental Cotton Trading Co., Osaka, Japan, that country expects to purchase cotton in greater volumes from this country than ever before. While the increase will be gradual, it will not be long before Japan will be in the front ranks as a consumer of the American article, according to K. Yamasaki, one of the company. Japan formerly had mills spinning yarns of twenty count and under for the most part, but now many mills are beginning to spin over this amount, and for these finer grades American cotton will be used almost entirely. Japan is making every effort to keep the new market opened to it in the Orient, during the war, and this will mean a greater demand for raw cotton from America.

Ford to Erect Assembling Plant in New Orleans—Capacity 150 Automobiles Daily.

New Orleans, La., July 24—[Special.]—John Reiss, Carondelet Building, this city, has been awarded the contract for erection of an assembling plant with a capacity of 150 automobiles daily for the Ford Motor Co., of Detroit. Some months ago a site was acquired here. The plant will serve the States of Louisiana, Texas and Mississippi, and will be well located for exports to Latin America, Mexico, etc. Approximately 400 men will be employed.

High School Contract Awarded.

Beaumont, Texas, July 8—[Special.]—Contract for the erection of a high school building at Orange, Texas, has been awarded McDaniel & Hartford of this city at a cost of \$175,000. It will contain 40 classrooms and will be of steel and concrete. C. H. Page & Co. of Austin are the architects.

First Unit of \$600,000 Hospital at Houston.

Houston, Texas, July 22—[Special.]—Street & Bailey are the architects for a five story reinforced concrete and brick hospital 38x104 feet to be erected here by the Texas Methodist Conference, according to Dr. R. W. Adams, manager. This will be the first unit of a hospital to cost \$600,000.

THE IRON AND STEEL SITUATION

Some Decline in Production at Pittsburgh.

Pittsburgh, Pa., July 22—[Special.]—Effects of the congestion on the railroads serving the West Virginia and Kentucky coal fields, which developed about the middle of June and was made very severe by the strike of railroad shopmen begun July 1, has affected pig iron and steel production in the past week, by shutting off supplies of coke to steel works and by-product coke ovens. The Republic Iron & Steel Company has banked two blast furnaces at Youngstown. The La Belle Iron Works, Trumbull Steel Company and McKinney Steel Company have each put out a furnace. Cherry Valley, a merchant stack at Leetonia, O., is out. The by-product coking plants at Buffalo are reducing operations, some of the furnaces there are operating at reduced rates and some will bank or blow out. The Jones & Laughlin Steel Company is operating as formerly and the one furnace the Carnegie Steel Company has blown out was for necessary relining. Steel production is decreasing in keeping with reduced pig iron supplies. The curtailment thus far is not heavy, probably less than five per cent of the country's output, but it has only begun, and greater restriction is probable in the next fortnight.

The shortage of coal and coke in the iron and steel industry is due chiefly to transportation conditions, not to the incident that after lasting three months the coal strike has lasted three weeks longer. Pig iron and steel production was at a greater rate on June 30 than on April 1, when the coal strike began. This is the actual fact, and the distinction is of course very important. Furthermore, whether or not one agrees with the widespread criticism in the steel industry of President Harding's manner of attempting to end the coal strike by proposing resumption on the 1920 wages and conditions and a reference to arbitration, the fact cannot be denied that the attitude of the miners was stiffened thereby, that union miners in the Pittsburgh district who had promised to return to work July 5 did not present themselves and that fresh strikes broke out in the Connellsville region. However, the steel trade has been greatly heartened by last Monday's developments, when President Harding, on the refusal of the United Mine Workers to arbitrate, "invited" the coal operators to go home and resume mining, promising them protection. The steel trade recognized that there will probably be a long drawn out struggle, but is quite content that it should be so, feeling that the matter is now in line to be settled right. Governor Sproul of Pennsylvania, in ordering a regiment of cavalry, a machine gun squadron and a motor truck company to southwestern Pennsylvania, issued a ringing proclamation, demanding the maintenance of order, saying that "the time to stop disorder is before it starts" and forbidding crowds and marching.

Operators of mines in the Pittsburgh district, hitherto union, have been making active preparations to attempt resumption, and similar efforts are being made in the Connellsville region, non-union, under the lead of the H. C. Frick Coke Company.

Connellsville coal has advanced 50 cents almost every business day in the past week, being now at \$7.00. The offerings are slightly reduced while there is heavier demand, chiefly from public service corporations, attributable chiefly to interruption of shipments from West Virginia and Kentucky. Connellsville coke has sold at \$13 to \$14 for foundry purposes.

The steel market is quieter still in point of turnover. There is no disposition to buy or sell for deliveries late in the year, while there is heavier pressure for prompt deliveries, some buyers having recourse to carload purchases out of warehouse, through inability to obtain prompt delivery from mill. Thus far the stringency in coal seems to be affecting steel

production more than steel consumption and the market is altogether in favor of sellers. Basis prices are unchanged, but delivery premiums are somewhat greater.

Pig iron has been stagnant, but it is plain that any forced buying would send prices up dollars a ton. The old quotations of \$25 on Bessemer and \$24 on basic and foundry, f.o.b. valley furnaces, have become nominal. A sale yesterday of 100 tons of malleable at \$27, valley, gives a hint of what is likely to occur in pig iron generally.

Production and Shipment of Pig Iron Maintained at High Level in Birmingham District.

Birmingham, Ala., July 24—[Special.]—While the pig iron market has quieted down some as to buying, there is no lessening up in the activity in the way of production, shipping and melting of the product. The railroad strike has not yet been felt in the Birmingham district and shipments are being started without much trouble but there is great delay in arrival of shipments at destinations. A great amount of pig iron can be produced in this district without the use of railroad lines which are affected by the strike, for the Tennessee Coal, Iron & Railroad Co., the Woodward Iron Co., and the Republic Iron & Steel Co., have their own railroads connecting ore and coal mines, coke ovens and the blast furnaces, so that if the worst came to the worst in the railroad situation the 15 blast furnaces of these three companies need not be disturbed. Other furnace interests are putting in surplus coal so that if there should be any cessation of the transportation facilities, production of pig iron need not be stopped. A few sales are still being recorded, in one to three car lots at the time. Prices have taken a \$19 per ton base, No. 2 foundry, with \$20 being asked for iron to be delivered during the fourth quarter of the year. The Tennessee Coal, Iron & Railroad Co. has had fire in its Robertstown furnace at Bessemer since last week and will produce foundry iron, and now has six furnaces on basic iron, two on foundry and one on ferro-manganese.

Local consumption of pig iron shows no abatement and there is no reason why there should be any interruption. Some of the melters of pig iron have stock on hand which will last them a few weeks and perhaps to the time a settlement of the railroad strike has been noted. Cast iron pipe makers both high pressure and sanitary producers, have specifications and orders on hand which will warrant steady operation of plants for several months to come. The high pressure pipe plant people look for an unprecedented winter business this year.

The railroad strike is interfering with the production of coal and because of the acute empty car situation, production probably fell off 60,000 tons during the week. Ending of the strike on the railroads will see immediate increase in both coal and coke, there being a strong market for these commodities. Coke prices are inclined to show additional strength.

The scrap iron and steel market is showing strength and readjustments of quotations is announced. So far there have been plenty of cars for old material. Heavy melting steel is holding at \$12.50 and better per ton.

In addition to 16,000 tons of Brazilian manganese ore brought up the river from Mobile by the Mississippi-Warrior River Service this month, 17,000 tons more are scheduled for August. The river service is also handling 1000 tons of sulphur from Texas monthly for the Steel Cities Chemical Co. at Ensley and recently brought 2000 tons of sulphur to the Grasselli Chemical Co. There has been considerable mis-

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cellaneous freight handled this month and the downward movement of coal, coke, pig iron, cast iron pipe, steel rail and other shapes of steel has been exceedingly heavy.

Skilled and common laborers are being brought to the Birmingham district from the Chickasaw Shipbuilding & Car plant at Mobile, some of this labor to be employed at the Chickasaw plants at Fairfield, near Birmingham, and in ore mines of the Tennessee Coal, Iron & Railroad Co. Labor agents operating out of Bessemer during the last few months shipped to West Virginia, Kentucky and Tennessee coal mining fields no less than 5000 laborers. The new labor being brought in will make it possible for ore and coal mining as well as other industrial activities to speed up. There is less unemployment in the Birmingham district today than in more than two years.

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$19.00 to \$20.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$19.50 to \$20.50; iron of 2.75 to 3.25 per cent silicon, \$20.00 to \$21.00; iron of 3.25 to 3.75 per cent silicon, \$20.50 to \$21.50; iron of 3.75 to 4.25 per cent silicon, \$21.00 to \$22.00; charcoal iron, f. o. b. furnaces, \$30.00 to \$32.00.

OLD MATERIAL.

Old steel axles.....	\$15.00	to	\$15.50
Old iron axles.....	15.00	to	15.50
Old steel rails.....	15.00	to	15.50
Heavy melting steel.....	11.50	to	12.50
No. 1 R. R. wrought.....	12.50	to	14.00
No. 1 cast.....	15.00	to	15.50
Stove plate.....	15.00	to	15.50
Old car wheels.....	14.00	to	15.50
Old tramcar wheels.....	14.00	to	15.00
Cast iron borings.....	9.00	to	10.00
Cast iron borings (chem.).....	13.40	to	14.00
Machine shop turnings.....	7.00	to	8.00

RAILROADS

Railway to Resume Operation.

The Franklin & Pittsylvania Railway Co. has been chartered in Virginia to operate the line of the old Franklin & Pittsylvania Railroad Co. running from Rocky Mount to Gretna, Va., 37 miles, and connecting at the Rocky Mount with the Norfolk & Western Railway and at Gretna with the Southern Railway. It has been idle for some time. The capital stock authorized is from a minimum of \$25,000 to a maximum of \$100,000. N. P. Angle, of Rocky Mount, is president and R. E. Ferguson, of the same place is secretary. Others also named as incorporators are C. S. Bennett of Toshes, Va.; C. W. Dudley, of Danville; J. T. Hodges, of Pen Hook, Va.; W. P. Dudley of Union Hall, Va.; T. A. Holland, of Glade Hill, Va.; John P. Lee and C. J. Davis of Rocky Mount.

Orders for New Equipment, Etc.

Illinois Central Railroad has ordered 65 locomotives from the Baldwin, the American and the Lima locomotive works, there being 25 Santa Fe type, 25 mikado type and 15 switch-engine types.

Seaboard Air Line has asked the Interstate Commerce Commission for permission to issue \$2,450,000 of 6 per cent equipment trust certificates to partly cover its purchase of 900 steel underframe ventilated box cars, 100 all steel phosphate cars, 1000 rebuilt steel underframe box cars and four all steel dining cars.

General American Car Co., of Chicago, will repair 500 all steel gondola cars of 50 tons capacity for the Baltimore & Ohio Railroad.

Moore Lumber Co., Charleston, W. Va., will purchase a log locomotive, besides log trucks and some 25 pound relaying rails to be used in getting out timber in Boone County, W. Va.

Buffalo Creek and Gauley Railroad has ordered 300 steel hopper cars of 55 tons capacity from the American Car & Foundry Co. This, added to the present equipment of the

road, which is owned by the Elk River Coal & Lumber Co., will give it a total of 900 steel hopper cars.

Southern Pacific Railway is reported in the market for 250 general service cars. Other car inquiries noted are 25 ventilated box cars and 25 composite gondola cars, all of 30 tons capacity with steel under frames, for the San Antonio Uvalde & Gulf Railroad; 2000 gondola cars for the Illinois Central Railroad; and several passenger cars for the Tennessee Central Railroad.

Sewell Valley Railroad has ordered a mikado type locomotive from the Baldwin Locomotive Works.

Texas & Pacific Railway, it is reported, will build 532 freight cars in its own shops at Marshall, Tex. Other cars to make up a total of 1100 are to be built there later.

Nashville, Chattanooga & St. Louis Railway has placed orders for 1000 freight cars, 15 passenger cars and eight locomotives, costing altogether about \$2,000,000. There are 750 box cars, 150 stock cars and 100 flat cars in the order.

An Arkansas Line to Be Reorganized.

Martin Walsh, receiver of the Memphis, Dallas & Gulf Railroad, has been authorized by the Interstate Commerce Commission to abandon operation of 70 miles of line, viz. 35 miles between Glenwood and Hot Springs, Ark., and a like amount between Nashville and Shawmut, Ark., leaving only about 26½ miles of line to continue in operation, between Nashville and Ashdown, Ark. The road, which is standard gauge and laid with rails of 56 and 60 pounds weight per yard, has ten locomotives and 143 cars, nearly all of which latter are for freight and company service. The funded debt consists of \$2,052,000, of 6 per cent bonds on which interest is in default for several years.

This road was originally known as Memphis, Paris & Gulf and was incorporated in 1906, beginning operation in 1907. In 1910 the name was changed to the present one and the Antoine Valley and the Ultima Thule, Arkadelphia, & Mississippi railroads, which had been operated under contract were absorbed. In 1911 the Hot Springs, Glenwood & Western Railroad was bought. For several years the company has shown a large annual deficit. The receiver was appointed September 11, 1920, having previously been general manager. The object is to put the line on a sound financial basis and reorganize it.

The company officers are President, Jos. Dickson, Jr., St. Louis; Vice-Presidents, Martin Walsh, Nashville, Ark.; and C. C. Henderson, El Paso, Tex.; Secretary, J. W. Bishop; Treasurer, Geo. H. Bell, both of Nashville. All these with A. C. Ramsey, of Nashville; W. H. Toland, of Ashdown, Ark., and C. M. Conway of Texarkana, Tex., are the directors.

Two Railroad Spurs in Coal Regions.

Harry M. Waugh, railroad contractor, Bluefield, W. Va., has been awarded two jobs as follows:

By the Virginian Railway Co. to build 3.6 miles of heavy railroad line down Laurel Fork, leading from the Virginian & Western Railroad at Virwest, W. Va. Construction of this line also involves building seven concrete bridges.

By the Hardy Coal Co., of Huntington, W. Va., to build a 5.8 miles branch railroad up Four Pole Creek near Panther, W. Va., leading from the Norfolk & Western Railway. This line is to develop large coal properties.

New Agent at Denver, Colo.

W. P. Coleman has been appointed contracting freight agent of the Central-Savannah Line at 612 Denham Building, Denver, Colorado, succeeding R. W. Brower who has resigned to accept a position elsewhere. This line is composed of the Central of Georgia Railway and the Ocean Steamship Co., of Savannah, Ga.

New Railroad Financing.

Recent railroad financing includes the following:

Eastland, Wichita & Gulf Railroad Co. is authorized by the Interstate Commerce Commission to issue \$556,000 of common capital stock and \$350,000 of bonds to be delivered to John Ringling of Chicago for cash advanced. The line is 26 miles long between Mangum and Breckwalker, Tex.

Clinton & Oklahoma Western Railroad Co. is authorized to issue \$500,000. of first mortgage 6 per cent bonds and \$400,000. of 5-per cent second mortgage bonds to be exchanged at par for \$900,000. of first mortgage 5 per cent bonds now outstanding.

Tennessee Railroad Co. has applied to the Interstate Commerce Commission for authority to issue \$842,249 in securities thus: \$600,000. first mortgage 6 per cent, 15 year bonds, \$100,000. general mortgage 6 per cent 15 year bonds and \$142,429 in notes, the whole to be distributed among holders of present securities at par or to repay them for contributions for construction, equipment or funds.

Baltimore & Ohio Railroad Co., has sold through Kuhn, Loeb & Co., and the National City Co., \$6,750,000. of 5 per cent equipped trust certificates to mature serially and annually until August 1, 1937. These securities relate to recent equipment orders of the system.

The Maryland Public Service Commission has approved the proposed issue by the Baltimore & Ohio Railroad Co. of \$1,040,000. of refunding and mortgage bonds for expenditures to be made on the property. The issue was previously approved by the Interstate Commerce Commission.

Knoxville & Carolina Railroad Co., Knoxville, Tenn., has been authorized by the Interstate Commerce Commission to issue \$260,000. of stock and \$132,000 of bonds on the Knoxville, Sevierville & Eastern Railway which is to be taken over by the former.

United Railways & Electric Co., of Baltimore, has sold through Alexander Brown & Sons, \$2,500,000. of 6 per cent five year notes to take care of maturing obligations.

Washington, Brandywine & Point Lookout Railroad Co. has been authorized by the Interstate Commerce Commission to issue \$431,000 of stock for construction purposes. Work is already begun.

Nashville, (Tenn.), Railway & Light Co. has been authorized by the Tennessee Railroad & Public Utilities Commission to issue \$1,000,000 of refunding bonds.

Freight Traffic Continues to Grow.

There were 718,319 cars loaded with revenue freight during the week ended July 8 according to a report issued by the Association of Railway Executives covering the car service, or 158,577 cars less than were similarly loaded during the preceding week, the decrease being due to the double holiday of July 3 and 4 which was widely observed, but the total for the week was 77,784 cars more than during the corresponding week of last year. The number of freight cars idle on July 1 was 405,185 or 23,889 cars less than on June 23.

General Counsel Elected.

John J. Cornwell, former Governor of West Virginia, has been elected general counsel of the Baltimore & Ohio Railroad Co. to fill the vacancy caused by the death of Hugh L. Bond, Jr. Mr. Cornwell has been a member of the board of directors since November, 1920, and was counsel for the company in West Virginia for a number of years.

The Pennsylvania Railroad has opened a freight office in Charlotte, N. C., the location being at 803 Commercial Bank Building with N. F. Carter in charge. This, it is stated, is the second office opened by the Pennsylvania in the South, the other being in Atlanta.

Reorganization Cuts Interest Charges.

The reorganization plan for the International & Great Northern Railroad Co. has been declared operative by the bankers interested—J. and W. Seligman & Co. and Speyer & Co., both of New York. It is proposed to issue \$20,000,000 of 6 per cent first mortgage bonds, \$14,000,000 of them to be used to refund existing debt and the rest to provide new working capital. There will also be \$17,000,000 of adjustment mortgage bonds to replace existing securities and to provide in part for the payment of overdue interest on them. Capital stock will be \$7,500,000. It is stated that the annual interest charges will be reduced from \$1,000,000 to \$1,180,000 by the reorganization.

Street Railway to Be Sold.

The property of the North Alabama Traction Co. is to be sold at Albany, Ala., on August 11 by A. A. Hardage, special master. The company was incorporated in 1904 as the successor of the Decatur Street Railway and its line runs from Decatur to Albany, about 7¾ miles, the company headquarters being in Albany. The funded debt includes \$150,000 of 5 per cent first mortgage bonds and \$75,000 of 6 per cent income bonds. J. B. Weakley is president, Eugene Fles of Birmingham, vice-president and W. R. Spear superintendent.

TEXTILE

Making Additions and Installing New Equipment.

Ramseur, N. C., July 22—[Special.]—The Columbia Manufacturing Co. with a capital stock of \$160,000, is engaged in erecting a mill with a daily capacity of 15,000 yards of brown sheetings. The work now being done covers the installation of generator, motors, looms, speeder, etc., and a reconstruction of the present plant building. All contracts for the work have been let. A total of 132 Draper looms with 40 of automatic type will be installed. The electric power plant will cost approximately \$7500; the approximate cost of the mill machinery is \$50,000.

Among the firms furnishing material and equipment are the General Electric Co., Schenectady, N. Y.; Draper Corp., Hopedale, Mass., and the Woonsocket Machine and Press Co., Woonsocket, R. I. J. E. Sirrine and Co., of Greenville, S. C., are the architects-engineers in charge.

Silk Plant Nearly Ready for Operation.

St. Augustine Fla., July 22—[Special.]—The American Silk Industry Co. will begin operations within a few weeks. Final equipment for the plant has arrived and will be installed as speedily as possible. Dr. De Pamphilis, originator of the plan, hopes to be producing about 5000 pounds of silk monthly by October. He has thousands of small mulberry trees which will be transplanted shortly, and negotiations are in progress for a large tract of land to form the main grove. By a secret process, he produces cocoons in natural colors as desired. It is said that climatic conditions in Florida are superior to those in any other part of the world, making it possible to produce a crop here every 35 days, while in European and Asiatic countries, one or two crops a year is the limit.

The Chiquola Manufacturing Co., Honea Pass, S. C., have awarded the contract for the construction of a sewer and water system for 132 new dwellings to the Henry Construction Co., Greenville, S. C. Contract for plumbing was let to J. G. Arnold, Greer, S. C. and a steel tank on trestle was purchased from R. D. Cole Mfg. Co., Newnan, Ga. J. E. Sirrine & Co. of Greenville are the engineers.

GOOD ROADS AND STREETS

North Carolina State Highway Commissioner Will Keep in Touch With District Offices by Radio.

Raleigh, N. C., July 22—[Special.]—State Highway Commissioner Frank Page will have installed in his office here a radio broad-casting station and in each of the nine district offices a receiving station to enable the administrative forces to keep in close touch with the construction and maintenance engineers throughout the state. The district offices are located at Tarboro, Kinston, Wilmington, Durham, Greensboro, Charlotte, Elkin, Marion and Asheville.

This will be the pioneer state to use the wireless telephone in carrying out an extensive road building program. While in Washington a short time ago, Commissioner Page was offered this equipment, which is a part of the surplus war material allotted the various states, and he immediately accepted it. Work of installing the sets will begin in the near future, and it is hoped to have it in readiness for operation by the middle of August.

Good Progress on St. Francis County Roads.

Forest City, Ark., July 22—[Special.]—Splendid progress is being made in the construction of roads in St. Francis County. In district number 2, R. A. Kern, engineer in charge of the work, reports that the work will probably be completed in 120 days. S. K. Jones of Memphis, who has the general contract, has sublet all of the work, which is progressing satisfactorily on the various sections. Stebben Bros. are working about 50 miles, and have the right of way for two miles. Three other contractors have 20 miles each at work. Surfacing will start within the near future. Gravel is being received daily at Round Pond.

Supplementary \$500,000 Kentucky Highway Program.

Frankford, Ky., July 22—[Special.]—Additional road construction and repair work to begin this year, as outlined at the monthly meeting of the State Highway Commission will necessitate an expenditure of approximately \$500,000. The largest outlay will be for grading and draining from Smithland to Marion, a distance of 25 miles. This will be carried out in conjunction with Federal aid, at a cost of about \$375,000. In Clinton County a $4\frac{1}{2}$ mile macadam road will be built between Albany and Monticello, costing \$50,000. In Union County a 14 mile project will start soon to cost \$75,000. In Franklin County a \$35,000 project will be undertaken.

Road Contracts Awarded Total \$280,000.

Kenedy, Tex., July 22—[Special.]—Contracts have been awarded Wear & Thomas, Rogers, Texas, and R. W. Colglazier, 910 Austin St., San Antonio, for road construction in district No. 4, Karnes County, to cost approximately \$280,000. The work consists of a one inch asphalt surface on a macadam base, and the necessary concrete drainage structures. The projects total 14.54 miles. O. N. Powell of Kenedy, is the engineer in charge.

Nearly \$400,000 in Road Contracts Let.

Fairmont, W. Va., July 22—[Special.]—Contracts aggregating \$391,000 have been awarded to F. F. Hallam of this city, the Monongahela Construction Co., W. H. Armstrong, Union Arcade Building, Pittsburgh, Pa., and N. M. Leigh, Mannington, W. Va. The construction work will include brick, oil-asphalt, macadam and concrete roads. B. H. Palmer is the engineer in charge.

Notes on Good Roads Construction.

The Tennessee State Highway Department has awarded contract for the sub-structure of the Clarksville Bridge over

the Cumberland River, known as Federal Aid Project No. 16, to the Gould Contracting Co. of Nashville, at \$196,891. Three other bids were submitted.

Commissioners of the Talihina Highway District, Mena, Ark., have awarded contract for building fifteen miles of hard surface road between Mena and the Oklahoma state line to the Western Construction Co. of Little Rock, Ark., at a cost of \$125,000, which includes the necessary bridges and culverts. R. A. Kern, of Little Rock, is the engineer for the district.

Manufactured Products in Tarrant County Texas for 1919 Total \$155,000,000, Ranking First in State.

Fort Worth, Tex., July 18—[Special.]—Statistics just published by the Bureau of the Census, Washington, show that products manufactured in Tarrant County, Texas, in 1919 were worth \$155,299,159, giving this county first rank in the state. Practically all of these products were manufactured in Fort Worth or its immediate suburbs, the population of this district being now in excess of 150,000; there is no other city in the county with a population of over 5000 and the manufacturing in the county outside of Fort Worth is negligible.

According to the census, Dallas County ran second, with a total valuation of \$116,160,150; third comes Harris County, in which Houston is located, with a total of \$104,776,719. Bexar County with San Antonio as chief city stands fourth in the state, with a total manufacturing volume of \$37,045,244.

In the production of this volume of \$155,299,159, there were employed in Fort Worth manufacturing plants 9196 wage earners. The total in Dallas was 8708; in Houston 11,411 and in San Antonio 6860.

During the year covered by the report Fort Worth supplied 15.8 per cent of the food preparations manufactured in Texas with an aggregate volume of \$2,754,286. Fort Worth also manufactured 16.3 per cent of the ice cream and confections of the State, having a total value of \$2,165,793. Printing and publishing during the year covered by the report totaled \$2,506,511, or 12.5 per cent of the total for the State.

Ice manufactured in Fort Worth was valued at \$888,110 and amounted to 9.1 per cent of the State's total. Automobile repairing was valued at \$685,558, or 12.9 per cent of the total for Texas.

The total volume of refined petroleum products produced in Texas for the year covered by the census report was \$241,757,313.

Growth of the slaughtering and meat packing industry in Texas is shown in comparative figures on the number of animals slaughtered during the last two report years as follows: 1919—1,751,507, 1914—1,554,102, an increase of 197,405, or 12.7 per cent. On this, the report makes the following comment:

"This industry retains second place in value of products of all manufacturing industries in the State and tenth place in the slaughtering and meat packing industry in the United States."

In the report of flour mill and grist mill products, it is shown that wheat flour was the product of chief volume, forming 72.2 per cent of the total volume of all products during this report year. The total volume of products of this industry increased in 1919 over 1914 by 141.9 per cent. The total value of these products in 1919 was \$37,954,060.

Henger & Chambers, Dallas, Tex., are the contractors for a \$113,000 high school to be erected at Taylor, Tex., after plans by Glesecke & Harris, architects of Austin, Tex.

LUMBER AND BUILDING MATERIALS

Conditions in Southern Pine Industry.

New Orleans, La., July 17—[Special.]—Lumber sales for the week ended Friday, July 14, as reported by 132 mills of the Southern Pine Association, totaled 3544 cars containing 73,222,584 feet, giving an average per mill of 554,717 feet. The average order per mill for the preceding week was 481,584 feet. Shipments during the week ended July 14, totaled 3,772 cars amounting 77,933,292 feet while production amounted to 77,535,088 feet.

The shipments for the week were 0.51 per cent above production, orders were 5.56 per cent below production and 6.04 per cent below shipments. The decrease in orders on hand during the week amounted to 1.54 per cent.

	Cars	Feet
Orders on hand beginning of week.....	14,836	306,526,596
Orders received during week.....	3,544	73,222,584
Total.....	18,380	379,749,180
Shipments during week.....	3,772	77,933,292
Orders on hand end of week.....	14,608	301,815,888

Steady Gain in Hardwood.

Memphis, Tenn., July 22—[Special.]—Despite strikes and an impending car shortage and other disturbing influences, the hardwood market registers a steady gain in the amount of business transacted. Practically all groups of consumers are increasing their purchases, and the outlook for business during the summer and fall is good. The strong demand for low grade hardwood for boxes and crates is an excellent indication of better general business conditions in the country. This demand started only recently, but has steadily increased.

Development of 4500 Acres Timber-land Planned.

The Miller Lumber Co., manufacturers of hardwood lumber and box shooks, of Marianna, Ark., recently purchased about 4500 acres of timberland and advised the MANUFACTURERS RECORD regarding the development to be undertaken as follows:—"Wish to state that we have complete facilities at this point for handling the timber from this purchase, making it unnecessary to add to our present equipment. The timber will come in the regular order of business, and about the only change is that it will add that much to our present holdings."

Brick Plant Purchased—Improvements Planned.

Roanoke, Va., July 22—[Special.]—The Roanoke Brick Co., Inc., has purchased the plant and equipment of the Roanoke Brick and Tile Corp., located at Webster, Va. The daily output will be about 20,000 of all grades shale face brick; extensive improvements are contemplated. The officers of the company are:—D. J. Phipps, president; W. W. Hobbie, vice-president; J. C. Haley, secretary-treasurer; and W. W. Hobbie, Manager.

Will Discuss Southern Pine Problems at Memphis.

New Orleans, La., July 22—[Special.]—A special mid-summer meeting of subscribers of the Southern Pine Association will be held in Memphis, Tenn., on Aug. 10. Emphasis will be given to the following subjects:—

Co-operation of Southern pine manufacturers in carrying out the plans of Secretary Hoover for the unification and standardization of sizes, names and grades of soft wood lumber; Grade marking of Southern pine lumber for the protection of the public, including consideration of methods proposed, mechanical facilities and other features connected with that project; Betterments in manufacturing methods including improvements in dry kiln practice and co-operation with Federal agencies in work for the benefit of the indus-

tries; and trade extension efforts, including continuation of the home building campaign throughout the nation in which the association has been a leading factor, and inauguration of a movement calculated to encourage construction on the farms.

Transportation problems, the probable lumber requirements of the country next year, forestry policy and other subjects presented by the various special and permanent committees of the association will be discussed.

Will Develop Big Timber Tract.

Charleston, W. Va., July 22—[Special.]—The Moore Lumber Co., manufacturers of hardwood lumber have just purchased a big tract of timber on the Little Coal River branch of the Chesapeake and Ohio Railroad in Boone County, W. Va., where they expect ultimately to manufacture over 10,000,000 feet of lumber. The company plans to install a 7-ft. band mill as well as the necessary logging railroad and equipment.

Steel Rolling Plant to Operate Soon.

Operations will begin about September 1st at the new plant of the Maryland Steel Rolling Co., in the Dundalk section, Baltimore.

A steel reclaiming bar mill to be operated by electricity and oil will be installed to produce the smaller sizes of steel bars made from high grade scrap, billet and sheet bar discards purchased in the local market. A small open hearth furnace, operated by oil, for the production of ingots, which can be treated as billets and rolled into finished products on the first heat is planned. The capacity of the first unit will be 30,000 tons annually, and equipment will be installed under the supervision of T. B. Hudson.

Recently the plant was merged with the Trenton Steel and Wire Co., of Trenton, N. J., which is well situated for distribution to eastern consumers. Provision will be made during the summer for installation of additional equipment.

Twenty Years in the Steel Industry.

"Armco: The First Twenty Years," is the title upon the richly embossed cover of a 320 page volume issued by the American Rolling Mill Co., Middletown, O., and which is descriptive of the beginning and the success of that organization. Beneath a figure representing a stalwart worker in the mills is an expression signed by Geo. M. Verity, president of the company, and reading as follows: "Armco spirit is a comprehensive vital force which finds expression in the practical application of policies built on a platform of Christian principles in which selfish purpose has no place."

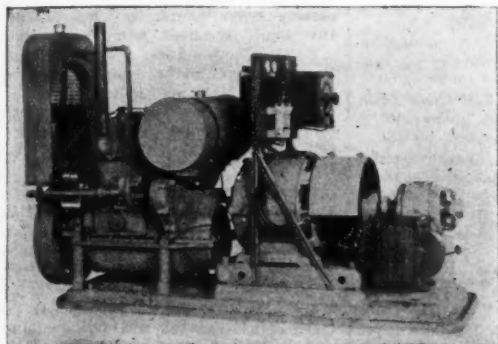
The contents of the profusely illustrated book, are full of live interest. The corner-stone of the original works of the company was laid on July 12, 1900, the organization began operations in Middletown in March, 1901, and the history of its steady and rapid advancement from that day to this is related, being full of characteristic American enterprise and accomplishment. Many of the pictures show the manufacturing processes; others are of a more general nature, but all bear upon the company and its achievements, which are widely known through the land. The work of the Armco Association, an organization composed of everyone employed in the works, is also told and reveals the manner in which the employees stick together and co-operate for the success of the plant and for their own welfare. Every page of the volume is interesting as a study of American industry in its highest development.

MECHANICAL

Gasoline-Electric Welding Equipment.

An engine driven welding equipment for use wherever electric power for motor drive is not available and for job welders who are obliged to work in widely distributed districts has been developed by the Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa.; it is being made in both stationary and portable models, and it has the advantage of making it unnecessary to lose time by applying for a permit or for making proper connections before work can begin.

The equipment consists of a Westinghouse single-operator, welding generator geared to a Dorman four-cycle, two-cylinder, low speed, marine type gasoline engine. The generator is direct current, has a rated capacity of 175 amperes and a maximum capacity of 225 amperes, at 1750 revolutions per minute. The generator is designed to operate at arc voltage, and to inherently stabilize the arc and supply a substantially constant current of different values over the working range of 90 to 225 amperes. The operating characteristics of the generator are such that it is unusually easy for the operator to strike and maintain the arc, and also to obtain the deep penetration and thorough fusion necessary for satisfactory welding. The shaft of the generator extends through the



STATIONARY ENGINE-DRIVEN WELDING EQUIPMENT.

pedestal bearing and is connected by means of a flexible coupling to the exciter.

The engine is of very rugged construction throughout, the cylinder block and the removable head being of semi-steel. The valves, main bearings, and connecting rod bearings are all of liberal dimensions for the service. Other features of the engine are forced feed system of lubrication, Wheeler-Schebler carburetor, Taco throttle governor, impulse starter and large honey comb type radiator.

The control panel is mounted directly over the generator on a rigid, light weight angle-iron framework and the entire equipment is mounted on a substantial cast iron bed plate.

Big Electric-Drive Drainage Pump.

Because of the wisdom and foresight displayed by the city authorities of Greenwood, Miss., in installing a large drainage pump early in the spring the recent unprecedented floods in the Mississippi Valley did not do any damage there and they enjoyed the additional satisfaction of realizing that the cost of the installation was insignificant in comparison with losses such as were suffered at points which were unprotected.

This installation consists of a Dayton-Dowd type CS 36-inch discharge centrifugal pump directly connected to a 300 horsepower Westinghouse induction motor with manual controller, the pump being made by the Dayton-Dowd Company of Quincy, Ill., while it was sold by and installed under the

direction of L. S. Valley & Co., sales engineers, of New Orleans, La., F. T. Walker being the supervising engineer and Roy Stott chief engineer of the power plant.

This, it is stated, is the largest pumping plant in Missis-



INSTALLATION OF LARGE DRAINAGE PUMP.

sippi and is modern and up-to-date in every respect. The pump house is placed about 400 feet from the Yazoo River. On the city side of the pumping station is a large sump into which the drainage and seepage water from the city and territory contiguous thereto is emptied. The pump takes the water from this sump, keeping the level in the pit down to a minimum and the discharge line of the pump extends to a tunnel which conveys the water into the river. The pump has a capacity of 34,000 gallons a minute and it operates against a total head of 25 feet. The motor drives it at a speed of 350 revolutions per minute.

The accompanying picture shows the pump being put in place and when the work was completed it was put into immediate use with a temporary structure over it. It ran for many days without a stop, this severe test being successfully and satisfactorily withstood. The pump will continue to be maintained as a protection against floods.

Commendations, Kicks and Comments

We Do Not Believe in Any Secret Organization Which Undertakes to Punish Even Known Criminals.

J. O. TALLY, Attorney at Law, Fayetteville, N. C.—Permit me to strongly indorse what you have to say about the Herrin Massacre and the frank and forceful way in which you put it. Localities which permit such outrages as this miners affair need pressure brought on them from the outside in order that they may get back in American civilization.

I like more than anything else about your publication the frank, unbiased, clear, and courageous position which you take on a public question, all of which makes me feel that yours is a publication not bought, or otherwise influenced by improper motives.

I should like to know something of your attitude on the Ku Klux Klan, which it must be admitted is getting to be rather large in the South. Personally I have no patience with it, and feel that our fair South will in no wise be improved by an "Invisible Empire."

One of the Greatest.

G. C. HEDRICK, Cashier, The Raleigh County Bank, Beckley, W. Va.—We have read the editorial in this week's paper with pleasure. We are a subscriber to the MANUFACTURERS RECORD and like it very much indeed. We congratulate you. You have in our opinion one of the greatest papers.

Construction Department

EXPLANATORY.

The MANUFACTURERS RECORD seeks to verify and obtain additional information regarding all enterprises reported in its Construction Department, by direct daily correspondence. Further facts of news value are published later from telegraph, mail and representatives' reports. We appreciate having our attention called to errors that may occur.

DAILY BULLETIN.

The Daily Bulletin of the MANUFACTURERS RECORD is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$20.00 per year.

Airplane Plants, Stations, Etc.

Tex., San Antonio—Hangar—War Dept., let contract to N. A. Saigh Co., to erect 110x-200x28-ft. steel hangar at Kelly Field.

Bridges, Culverts and Viaducts.

Fla., Seabreeze—Seabreeze Bridge Co., in ctpd. with P. D. Gold, Prest.; Jas. Wood, Secy.; Harry A. Horn, Treas.; plan building bridge and roadways on west side river.

Fla., St. Petersburg—City, E. C. Garvin, Director of Works, will build concrete bridges, do drainage work and install incinerator; contemplates issuing \$500,000 bonds.

Fla., West Palm Beach—Palm Beach County Comms., Hector Harris, Chrmn., let contracts for following:

Bascule lift and necessary approach spans across lock chamber on Lock No. 3 of Palm Beach Canal at Dixie Highway crossing in south limit of city; reinforced concrete; to H. C. Daniels, West Palm Beach, at \$6100.

Over Poppleton Creek on Bessie Addition road, ½ ml. from Stuart; concrete.

Over Poppleton Creek on Stuart-Annie road, ½ ml. from Stuart.

Over Rattlesnake Creek on Stuart-Annie road, 2½ ml. from Stuart; both reinforced concrete, arch construction, or slab and girder type; let contract for three above bridges to Luten Bridge Co., York, Pa.

Fla., West Palm Beach—Palm Beach County Comms., will build 2 bridges. For full detail see Mch. Wanted—Bridge Construction.

Ga., Athens—Clark County will build bridges across Oconee River at River St., and at Oconee St.; lay roads; voted \$150,000 bonds. Address County Comms.

Ga., Berryton—Chattanooga County Comms. let contract to Luten Bridge Co., Atlanta, Ga., to build concrete bridge across Raccoon Creek, near Berryton, on Sommerly-Lyerly road.

Ga., Dalton—Whitfield County Comms., let contracts to Luten Bridge Co., Atlanta, Ga., at \$17,926, to build 3 bridges:

Over Coahulla Creek, on Dawnville road; two 70-ft. spans; \$10,626.

Over Swamp Creek, near Carbondale.

Over Chickamauga Creek, Trickum Dist.

Ga., Dublin—Laurens County, Board of Comms. Roads and Revenues, J. H. Witherington, Clk., let contract at \$120,000 for following concrete bridges:

4 on Dublin-Dexter road, to Bernby and Duggan, Hawkinsville, Ga.

3 on Dublin Tingle, to A. E. Itner & Co., Albany, Ga.; E. N. Parker, Engr., Dublin.

Ga., Tifton—Tift County will build 3 bridges across Little River on Tifton and Moultrie road; also build concrete bridge across Cowhouse branch, between Tifton and Little River; invites bids; State and Federal Highway Depts., co-operating.

Ga., Hartwell—State Highway Dept., Atlanta, Ga., let contract to E. M. Williams, Monroe, Ga., at \$14,333.70, to build 3 bridges on Bankhead Highway between Hartwell and Royston.

Miss., Macon—Noxubee County Comms., will repair wooden bridge. For full detail see Mch. Wanted—Bridge Construction.

Missouri—State Highway Dept., Jefferson City, Mo., let contracts to St. Louis Bridge & Supply Co., St. Louis, Mo., at \$21,359.90 to build 7 bridges on State road from Ironton to Potosi; Iron County, Federal Aid Project No. 107, Section B:

Station 105 plus 15, over Spring Branch of Knob Creek; 40-ft. reinforced concrete spandrell filled arch span; 18-ft. roadway.

Station 250 plus 58, two 6-ft. reinforced concrete slab spans; 18-ft. roadway; 2 concrete abutments.

Station 274 plus 62, over Flat Creek; two 16-ft. reinforced concrete slab spans; 18-ft. roadway; 2 concrete abutments.

Station 392 plus 55, over Charley Creek; 20-ft. reinforced concrete slab span; 18-ft. roadway; 2 reinforced concrete abutments.

Station 498 plus 83, over Branch of East Fork of Cedar Creek; two 24-ft. reinforced concrete deck girder spans; 18-ft. roadway; 2 reinforced concrete abutments.

Station 543 plus 70, over East Fork of Cedar Creek; 40-ft. reinforced concrete spandrell filled arch span; 18-ft. roadway.

Station 546 plus 95, over Townsend Branch of Cedar Creek; 40-ft. reinforced concrete spandrell filled arch span; 18-ft. roadway.

Let contract to A. T. Bramer & Son, Monett, Mo., at \$6465, to build bridge on State road from Springfield to Lamar; Dade County, Federal Aid Project No. 159, Section B; over Lynn Branch, Station 1111 plus 12; three 18-ft. reinforced concrete slab spans; 18-ft. roadway; 2 concrete piers; 2 reinforced concrete abutments.

Missouri—State Highway Dept., Jefferson City, Mo., plans building following bridges: Scott County, Federal Aid Project No. 5, on State road from Cairo to Poplar Bluff.

Sta. 11 plus 00, over Drainage Ditch No. 1; 50-ft. I-Beam span; 18-ft. roadway; wood floor; 2 mass concrete abutments.

Sta. 26 plus 40, over Ash Slough Drainage Ditch; 4-ft. I-Beam span; 18-ft. roadway; wood floor; 2 mass concrete abutments.

Sta. 266 plus 30, roadway; over St. Johns Drainage Ditch; 70-ft. steel truss span; 18-ft. roadway; wood floor; 2 mass concrete abutments, skewed.

Sta. 401, over North Cut Drainage Ditch; 85-ft. steel truss span; 18-ft. roadway; wood floor; 2 mass concrete abutments, skewed; M. S. Murray, Div. Engr., Sikeston, Mo.

Dunklin County, Federal Aid Project No. 183, Sections B and C, on State road from Dexter to Malden, through Kennett:

Sta. 4 plus 35, over Drainage Ditch; 50-ft. I-Beam span; two 20-ft. I-Beam approach

spans; wood floor; 18-ft. roadway; 2 concrete piers; reinforced concrete pile bents.

Sta. 10 plus 62, over Drainage Ditch; 30-ft. steel truss span; 18-ft. roadway; wood floor; 2 reinforced concrete abutments.

Sta. 39 plus 45, over Holcomb Lateral Drainage Ditch; 45-ft. I-Beam span; 18-ft. roadway; wood floor; 2 reinforced concrete bents, skewed.

Sta. 130 plus 05, over Drainage Ditch; 80-ft. steel truss span; 18-ft. roadway; wood floor; 2 reinforced concrete abutments.

Sta. 336 plus 20, over Drainage Ditch; 30-ft. I-Beam span; 18-ft. roadway; wood floor; 2 reinforced concrete abutments.

Sta. 411 plus 97, over Drainage Ditch; 30-ft. I-Beam span; 18-ft. roadway; wood floor; 2 reinforced concrete abutments; M. S. Murray, Div. Engr., Sikeston, Mo.

Dallas County, State Aid Project No. 20, 183, on State road from Buffalo westward, northwestward and northeastward;

Sta. 203 plus 65; 20-ft. reinforced concrete slab span; 18-ft. roadway; 2 reinforced concrete abutments.

Sta. 178 plus 35; 30-ft. reinforced concrete deck girder span; 18-ft. roadway; 2 moss concrete abutments; H. P. Mobberly, Div. Engr., Woodruff Bldg., Springfield, Mo.

S. C., Clover—York County, Hugh G. Brown, Supvr., plans building bridge across Crowder's Creek, at Riddle's Mill.

Missouri—State Highway Dept., Jefferson City, Mo., will build 2 concrete bridges. For full detail see Mch. Wanted—Bridge Construction.

Mo., Boonville—Cooper County, Rolla D. Pealer, County Clk., let contract to Missouri Valley Bridge & Iron Co., Leavenworth, Kansas, at \$500,000 to build free bridge across Missouri River; State, County, Citizens and Federal Aid, each to pay \$125,000.

Mo., Mt. Sterling—Gasconade County Court plans expending \$25,000 to build bridge over Gasconade River at Mt. Sterling.

N. C., Monroe—North Carolina State Highway Comsn., Raleigh, N. C., will build steel and concrete bridge. For full detail see Mch. Wanted—Bridge Construction.

S. C., Greenville—Greenville County, J. J. Vernon, County Supvr., plans rebuilding 140-ft. wooden bridge over Paeolet River at Crocker Shoals; rock abutments.

Tenn., Clarksville—State Highway Dept., Nashville, Tenn., let contract to Gould Contracting Co., Nashville, Tenn., at \$196,891, for substructure of bridge over Cumberland River; Montgomery County, Federal Aid Project No. 16.

Tenn., Greenville—Greene County Bridge Comms., let contract to John A. Steel, Jr., Constr. Engr., Holston Bank Bldg., Knoxville, Tenn., for six reinforced concrete arch bridges as follows: at Overholster, at Stony Creek, at Hoover Creek, Bright Hope, Otway Bridge and at Little Lick Creek.

Tex., Boston—Bowie and Cass Counties will build bridge across Sulphur Creek at Pettis' Ferry; Federal Aid to pay \$50,000; State of Texas, \$25,000 and Bowie and Cass Counties, each \$12,500; bids invited soon; will also build 2 other bridges across Sulphur Creek:

at Pace's Ferry.

at Stephenson's Ferry; State and Federal Aid, and Counties paying about same cost. Address County Comms.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Fort Worth—Tarrant County plans building bridge over Little Fossil Creek; six 10-ft. clear span reinforced concrete slabs; 20-ft. roadway; \$5500; Hugh L. Small, County Judge; R. V. Glenn, County Engr.

Tex., Fort Worth—Tarrant County, R. V. Glenn, County Engr., plans building bridge over Walnut Creek; 120-ft. thru steel truss on concrete piers; 20-ft. roadway; \$17,250; Hugh L. Small, County Judge.

Tex., Victoria—Victoria County plans building concrete bridge across Colletto Creek on "12 Mile" crossing; vote Aug. 19 on bonds. Address County Comms.

Tex., Waco—Ben. C. Richards, Mayor, plans improving bridges; \$50,000 bonds available.

Canning and Packing Plants.

Ark., Bald Knob—Searcy Chamber of Commerce, Searcy, Ark. interested in establishment of cannery.

Fla., Bradentown—Manatee County Growers Assn. will erect packing house; concrete foundation; terra cotta and tile walls; stucco finish on exterior; main building 50x150 ft.; 1½ story surrounded on 3 sides with 10-ft. wide loading platforms; cost of building \$15,000; will call for bids July 22; Johnson & Fonda, Archts.

Fla., Groveland—Groveland Citrus Growers Assn., A. F. Bauer, Pres., contemplate establishing coloring plant.

Fla., St. Cloud—Chamber of Commerce interested in construction of fruit packing plant.

Ga., Cairo—Farmers Co-operative Cane Syrup Asso. will construct plant with capacity of 10,000 bbl. of syrup a season, with storage warehouse from 20,000 to 25,000 bbls.

Md., Baltimore—Shafer & Co., formed by merging of Jones & Lamb, Lombard & 7th St. and Jacob C. Shafer Co., Ford Lane and Reisterstown Rd., capital \$2,350,000, Howard S. Smith, Pres., J. Fred Shafer, Treas.; will improve Highlandtown plant; will have capacity of 15,000 hogs and 1000 cattle weekly.

Okla., Enid—Southwest Packing Co., capital \$50,000, inceptd. by Geo. Elliot, John Carey, both of Enid, A. C. Spaulding, Kansas City, Kan.

S. C., Norway—S. S. Williams will install canning plant. (See Mch. Wanted—Cans; Labels, etc.)

Clayworking Plants.

La., Shreveport—Bricks—Shreveport Brick and Tile Co., J. W. Peyton, Pres., has purchased 100 acre site on Douglass Island and will erect plant to mfr. pressed brick; annual

output 10,000,000 bricks with storage capacity of 5,000,000.

Md., Easton—Brick and Tile—New Brick & Tile Co., Moreland Bldg., O. Fletcher Clarke, Secy., is having plans preparing for 1-story plant; cost \$50,000. (Lately noted.)

Md., Williamsport—Bricks—Conococheague Brick Co., Hagerstown, will improve plant; will construct 3 kilns and mill; cost \$35,000.

Tex., San Antonio—Fullers Earth—Melchers Fullers Earth Co., capital \$100,000, inceptd. by F. J. Dykstra, L. L. Shropshire, E. G. Potter.

Va., Webster—Roanoke Brick Co., Inc., Roanoke, Va., W. W. Hobbie, Mgr., lately noted inceptd. with \$100,000 capital, has purchased the plant and equipment of Roanoke Brick and Tile Corp.; daily output 20,000 all grades shale face brick; contemplate improvements.

Coal Mines and Coke Ovens.

Ky., Poor Fork—Meadows Harlan Coal Co., Pineville, Ky. (lately noted inceptd., capital \$50,000) organized with F. M. Meadows, Pres.; J. W. Dean, Mgr., will develop 100 acres coal land, daily output 300 tons; A. B. Coulton, Const. Engr., Pineville.

Tenn., Chattanooga—West Va. Tenn. Coal Co., capital \$15,000, inceptd. by T. O. Busbee and Thos. Lockhart.

Va., Dante—Nora Coal Corp., Jas. W. Gerow, Pres., will develop about 200 acres coal land with daily output about 350 tons. (See Mch. Wanted—Ralls (Relaying); Mining Cars and Equipment.)

W. Va., Charleston—Lively Coal Co., capital \$25,000, inceptd. by Frank Kerns, St. Albans, Otis Lively, Pax; P. R. Cameron, Grippe.

W. Va., Clarksburg—Irving Coal Co., capital 50,000, inceptd. by W. I. Booth, C. E. Puntz, J. M. Stark.

W. Va., Huntington—Hunnall-Guyan Coal Co., capital \$25,000, inceptd. by W. M. Jones, E. H. and H. I. Butts.

W. Va., Huntington—Paragon Coal & Supply Co., capital \$50,000, inceptd. by W. E. Deegans, A. E. Fitzwater, J. M. Turner.

Concrete and Cement Plants.

Md., Baltimore—Cement—Maurice Chemical Co., Inc., lately noted inceptd., D. E. Collins, Pres., 1427 Washington Blvd.; mfr. refractory and high temperature furnace cements; will install sand and cement mixers, bagging and weighing equipment. (See Mch. Wanted—Building Materials; Fire Clay; Mixers; Bagging and Weighing Equipment.)

N. C., Biltmore—Ornamental Concrete—The Felstone Co., C. Marshall Gravatt, 326 Haywood Bldg., 46 Haywood St., Asheville, will erect plant to mfr. precast building and ornamental concrete work; 112x56 ft.; install mixers, screens and wood working machinery, cars, grinders, etc., cost \$10,000; construction by owner; W. Loyall Gravatt, Jr., Construction Engr.; lately noted. (See Mch. Wanted—Sheet Lead; Muriatic Acid; Stone Cutting; Grinding and Polishing Mch.)

W. Va., Ackerman—Titan Cement Co., capital \$500,000, inceptd. by W. L. Sperry, D. R. Bartz, J. W. Cook.

Cotton Compresses and Gins.

La., Shreveport—S. B. Hicks and associates reported to merge 3 cotton compresses, organize company with \$500,000 to operate.

Miss., Goodman—Goodman Gin Co., capital \$8000, inceptd. by H. E. Cowser and others.

Miss., Madison Station—M. S. Cox Gin Co., capital \$8000, inceptd. by M. S. Cox and others.

Tenn., Memphis—Crowder Gin Co., capital \$20,000, inceptd. by Fred M. Darnell, T. C. Merriman, Frank M. Gilliland.

Tex., Blue Grove—Farmers Gin, capital \$10,000, inceptd. by J. H. Allred, L. L. Brown, S. L. Spann.

Tex., Dallas—A. H. Wicker & Co., capital \$40,000, inceptd. by A. H. Wicker, M. M. Perry, W. E. Todd.

Tex., Goodnight—Peoples Gin Co., capital \$6000, inceptd. by W. H. Woodward, H. S. Hudson, J. C. McDowell.

Cottonseed-Oil Mills.

Ala., Tusculumbia—Tusculumbia Cotton Oil Co., capital \$50,000, inceptd. by W. H. Jasson, Houston, Tex.; Leon Reed and N. A. Graham, Jr., Birmingham.

Tex., Dallas—Planters Cotton Seed Products Co., capital \$100,000, inceptd. by W. H. Jasson, E. L. Flippen, Louis Rosenstein.

Tex., Stamford—Oil—Jay Cotton Oil Co., will erect oil mill; brick and concrete; daily capacity 125 tons; will construct feeding pens with capacity for fattening 5000 cattle.

Drainage Systems.

Fla., St. Petersburg—For full detail see Bridges, Culverts, Viaducts.

La., Monroe—Tensas Bayou Drainage District of East Carroll Parish will construct improvements to drainage district; votes August 15 on \$200,000 bonds.

Miss., Batesville—Long Ck. Drainage Dist.

OPPORTUNITIES FOR NEW BUSINESS

THROUGH THE

DAILY BULLETIN

Manufacturers of Machinery and Equipment, Dealers in Railroad and Contractors' Supplies, as well as Architects, Contractors and Builders, find it very profitable to follow up the advance news furnished through our DAILY BULLETIN EVERY BUSINESS DAY IN THE YEAR. It is an authoritative, prompt source of information concerning every industrial and railroad undertaking of any consequence, and likewise all important building operations and municipal improvements in the whole South. The opportunity of getting in correspondence with firms that are in the market is afforded by a daily perusal of its columns.

MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Comms., let contract to N. C. McGinnis & Co., Memphis, Tenn., to construct $4\frac{1}{2}$ mi. drainage canals; 100,000 cu. yds.

Miss., Marks—For full details see Mch. Wanted—Drainage Systems.

Tex., Victoria—Drainage District No. 4 voted \$36,000 bonds. Address Comms.

Electric Plants.

Md., Baltimore—American Water Works & Electric Co., 52 Broadway, New York, reported to have applied to Public Service Comsn. for authority to acquire Potomac Public Service Co.

Md., Port Deposit—Northern Maryland Electric Co. applied to Public Service Comsn. for authority to purchase plant and stock of Port Deposit Electric Co.; will issue \$5000 capital stock.

Mo., Hannibal—Marion County Light & Power Co., capital \$5000, inctpd. by J. E. Weatherly, J. T. Ray, P. M. Fischer.

Mo., Doniphan—Sam C. Danner, P. O. Box 213, Prest. Doniphan Light, Ice & Power Co. will expend approx. \$10,000 for lighting streets, erecting building and installation of mch. (Lately noted.)

Mo., New Florence—Missouri Utilities Co. of Mexico, considering extension of transmission line to New Florence.

Mo., Pleasant Hill—Green Light & Power Co. granted authority by State Public Service Comsn., Jefferson City, Mo. to purchase electric power plant and distribution system at Warrensburg, distribution system at Knobloster, Montserrat, Lamonte and Concordia, electric power plant and distribution system at Brookfield, transmission line from Laclede to Linneus and part of lines from Laclede to Summer, and gas generating plant and water distribution system in Clinton.

N. C., Black Creek—For full detail see Mch. Wanted—Transmission Lines, etc.

N. C., Hobgood—For full details see Mch. Wanted—Transmission Line.

N. C., Wilmington—Tide Water Power Co., F. A. Mathes, Executive V.-P., has under consideration the construction of high tension line between Wilmington and Faison.

Okl., Pawnee—City Council requested Oklahoma Gas & Electric Co., to connect high power line from Drumwright to Enid to Pawnee line.

Tex., Austin—Board of Control of University of Texas, reported to have under consideration erection of separate water, light, power and refrigerating plant.

Tex., Corsicana—Chamber of Commerce interested in installing white way.

Tex., Dallas—J. Woodley Gosling and A. F. Dickerson, Ch. Engr. of General Electric Co., Schenectady, N. Y., reported interested in establishing white way on Pacific Ave.

Tex., Dallas—Dallas Power & Light Co., C. W. Davis, Prest. contemplates expending \$1,500,000 in improvements to light plant on Trinity River.

Tex., Lufkin—City will probably let contract to Lufkin Light & Power Co., for street lighting system.

Tex., Waco—Beard & Stone Electric Co., capital \$20,000, inctpd. by E. C. Beard, Chester A. Stone, J. R. Davis.

Va., Bedford—Montvale & Thaxton Transmission Co., capital \$25,000, inctpd. with Dr. W. O. McCabe, Prest.; R. A. Gilliam, V.-P.; S. H. Price, Secy.-Treas.; will operate light and power line between Bedford, Thaxton, Montvale and Blue Ridge Springs.

W. Va., Ronceverte—West Penn Power Co., West Penn Bldg., Pittsburgh, Pa., reported will erect addition to power plant; J. G.

White, Engr. Corp., 43 Exchange Place, New York, Engrs.

Fertilizer Factories.

S. C., Charleston—Port Utilities Comsn., H. M. Gallagher, Gen. Mgr. will construct fertilizer wharf or pier for handling imported fertilizer both in bulk and stacked; cost approx. \$500,000. (Lately noted having acquired water front facilities of Charleston Terminal Co.)

Flour, Feed and Meal Mills.

Fla., Chipley—C. S. Pleas will install feed mill for grinding hay into meal. (For full details see Land Development.)

La., Baton Rouge—Baton Rouge Rice Mill, lately noted inctpd. with \$50,000 capital, has purchased rice plant of Burgin Bros.

Tenn., Fayetteville—Petersburg Mill Co., Petersburg, Tenn., lately noted inctpd. with \$15,000 capital, organized with O. H. Gill, Prest.; E. E. Eakin, Secy.; will erect plant; 32x53 ft.; 3-story; mill construction; install mch. to cost about \$8000.

Gas and Oil Enterprises.

La., Monroe—Louisiana Development Co., subsidiary of Union Power Co., reported to construct pipe line from Monroe gas fields to Houston and other Texas fields.

Okl., Cushing—Commonwealth Oil Co., will construct water system for fire protection.

Okl., Tulsa—Dutcher Oil Co., capital \$10,000, inctpd. by Saul A. Yeager, Samuel A. Boorstin, F. J. Currier.

Okl., Tulsa—Vennum Tank Co., capital \$10,000, inctpd. by H. C. Moore, Robt. J. Vennum, Floyd Myers, of Shidler.

Okl., Tulsa—Dorana Oil Co., capital \$10,000, inctpd. by Saul A. Yeager, Samuel A. Boorstin, F. J. Currier.

Okl., Tulsa—Creek Royalty Co., capital \$100,000, inctpd. by Everett M., S. C. Byers, M. F. Garrettsen.

Tex., Columbus—Columbus Bernardo Oil Corp., capital \$100,000, inctpd. by A. C. McClamahan, O. J. Winterman, J. N. Lee.

Tex., Houston—Condon Production Co., capital \$50,000, inctpd. by E. J. Condon, L. J. McDonald, M. M. Modiaty.

Tex., Houston—Big Creek Oil Co., capital \$50,000, inctpd. by H. M. McLeod, J. F. Tucker, T. W. Horn.

Tex., Huntsville—City Council let 50 yr. gas franchise to J. F. Smoke and associates of Houston, Texas.

Tex., Wichita Falls—Freeman-Hampton Oil Corp., capital \$112,000, inctpd. by J. H. Freeman, J. W. Hampton, Nat Henderson.

Tex., Wichita Falls—Pope Production Co., capital \$20,000, inctpd. by J. W. Catlett, Marion Pope, W. H. Sanford.

Va., Richmond—Peerless Oil Co., capital Oil Co., capital \$500,000, inctpd. with E. E. Pratt, Paola Kan., Prest.; Guy B. Hazlegrove, Secy., Richmond.

W. Va., Fairmont—Standard Oil Co., reported to construct warehouse, garage, pump station and several tanks on 7th St.

W. Va., Huntington—Ohio Valley Shale Oil & Development Co., capital \$150,000, inctpd. by C. B. Hill, H. H. Brown, R. E. Petty.

W. Va., Huntington—Marcum Oil & Gas Co., capital \$50,000, inctpd. by A. B. Chamberlain, L. T. Saunders, M. R. Ward.

W. Va., Wyndal—Wyndal Oil & Gas Co., capital \$25,000, inctpd. by T. A. Deltz, U. G. Thomas, Charleston; L. D. Moran, Wyndal.

Hydro-Electric Plants.

N. C., Pilot Mountain—City let contract to M. E. Jones, Granite Falls, N. C. to construct stone and concrete dam and power house on Ararat River; S. W. Barber, Mt. Airy, Engr.

Ice and Cold-Storage Plants.

Ga., Athens—Atlantic Ice & Coal Corp. will construct cold storage plant and ice warehouse on Oconee St.

La., Monroe—Paul Fudickar, Propr. of Consolidated Ice Co., and W. W. Johnson, of Memphis, Tenn. will erect ice plant; contract let.

Md., Baltimore—Wm. J. Huber will erect ice plant at Spring Ave. and Belair Rd.; 1 story; frame and corrugated iron; cost \$17,000.

Md., Salisbury—Swift Meat Packing Co. will erect meat storage plant on Pine St. Mo., Doniphan—Sam C. Danner, P. O. Box 213 Prest., Doniphan Light, Ice & Power Co., will construct main building 3x60 ft.; cold storage and ice storage rooms, 20x40 ft.

Mo., St. Louis—Heat & Ice Co., Inc., capital \$10,000, inctpd. by R. C. Houck, K. H. Leigh.

N. C., Concord—A. B. Pounds will increase capacity ice plant; will install 25 ton electric driven raw water system ice making machine.

N. C., Fayetteville—Fayetteville Ice & Mfg. Co., J. F. Harrison, Prest., will rebuild burned plant; brick; metal roofing; daily capacity 90 tons ice, 1000 gal. ice cream; will install electric hoists, agitators and electric pumps.

N. C., Weldon—Weldon Warehouse & Storage Co., capital \$100,000, inctpd. by G. E. Ransom, W. A. Pierce, W. E. Daniel.

Tex., Austin—For full details see Electric Plants.

Tex., Brady—Mayhew Produce Co., will construct 3 room cold storage plant; cost \$15,000; fireproof; Baker Ice Machine Co., Omaha, Neb., Contr.

Tex., Beaumont—Stedman Fruit Co., let contract to Walsh & Burney, San Antonio, for fruit storage building; cost \$170,000.

W. Va., Logan—Logan Produce & Cold Storage Co., capital \$200,000, inctpd. by LeRoy Webster, John G. Cotton, Earl M. Roehm.

W. Va., Shinnston—Hornor Bros., Clarksburg, W. Va., contemplate installing ice plant; capacity 10 tons ice daily; cost about \$30,000.

Land Development.

Ark., Fayetteville—G. A. London will develop Meadowdale for suburb.

Fla., Chipley—C. E. Pleas Plant Co., C. E. Pleas, "Glen Arden Farm," nr. Chipley, will develop acreage in Kudzu plants, hay, and other forage plants; will install small refrigerating plant with capacity of 500 to 600 lbs. ice; and feed mill for grinding hay, grain or other roughage; lately noted. (See Mch. Wanted—Feed Grinders; Refrigerating Plant.)

Fla., Jacksonville—Ocean Investment Co., capital \$15,000, inctpd. with Thomas Clarke, Prest.; O. P. Woodcock, V.-P.; J. I. Tripett, Jr., Secy.

Fla., Lake Wales—Co-Operative Fruit Co., inctpd. by G. V. Thilman, C. L. Johnson, B. K. Bullard; will develop between 225 and 250 acres of citrus fruit land.

Fla., Orlando—Fortune Orange Grove & Truck Co., capital \$25,000, inctpd. with F. E. Baxter, Prest.; C. A. Boyer, V.-P.

Fla., St. Petersburg—Pinellas Plant & Floral Nurseries, capital \$15,000, inctpd. with G. W. Bascot, Prest.; J. R. Curry, V.-P.; Jas. M. Curry, Secy.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., Tampa—A. C. Clewis will develop 25 acres on Lake Okechobee for nursery; will expend \$10,000. (Lately noted.)

Fla., Wauchula—Wauchula Development & Mfg. Co., H. B. Rainey, Prest., lately noted inceptd. with \$3,500,000 capital; has 84,000 acres; will develop for homesite, farms and orange groves; plans expending about \$100 per acre.

La., New Orleans—United Realty Co., 508 Carondelet St., L. Chetta, Prest., will expend about \$12,000 in developing 20 acre site; will construct shell roads, etc.; contract let. (Lately noted.)

Md., Hyattsville—Moses Edlavitch purchased site, will develop for subdivision, install water and sewer system.

Mo., Eldorado Springs—Eldorado Development Co., capital \$300,000, inceptd. by A. B. Stricklett, Wm. True and O. E. Siders.

Mo., Kansas City—Memorial Cemetery Assn. of Mo., capital \$300,000, inceptd. by Wm. Thomson, G. K. Brasher, A. S. Austin.

Mo., Kansas City—W. A. Miller Floral Co., capital \$7000, inceptd. by W. A. Miller, M. E. Miller, H. M. Bayne.

Mo., Kennett—Twenty Acre Farms Co., capital \$100,000, inceptd. by H. B. Pankey, Wm. Lasswell, Jr. W. O. Lasswell.

Mo., Little Blue—White Hills Farms Co., capital \$150,000, inceptd. by Wm. Shands, F. R. Hiller, L. M. Dehoney.

Mo., St. Louis—Pascoia Farms Co., inceptd. by Emmet Watson, W. M. Nivin, J. R. Watson.

N. C., Asheboro—J. S. McAllister, Greensboro, N. C. will develop 32 acres for subdivision; install granolithic sidewalks, gravel streets; install water and sewer system; plans completed probably within 30 days; expense approx. \$25,000; Frank T. Miller, Engr., Greensboro, N. C. (Lately noted.)

N. C., Charlotte—E. S. Draper, Landscape Archt. and City Planner, 11 E. 5th St., Charlotte, has been retained for following work: Whitney Mfg. Co., Whitney, S. C. for improvements to mill grounds; Sunset Park Co., Frank Wineskie, Chrmn. of Comm., High Point, N. C., to plan development of golf course in conjunction with Donald Ross, Golf Archt., Newton Centre, Mass.; Mrs. J. J. Bryant, Bramwell, W. Va., for improvements to home grounds; W. E. Holt, Lexington, N. C., development of home grounds in Myers Park, Charlotte, N. C.

N. C., Raleigh—Allen Bros. will develop 110 acres for homesite; will construct sewers, streets, etc.

N. C., Salisbury—John S. Henderson Estate, E. H. Harrison, Agt. will develop 600 acres for residential site; will construct hard surfaced roads; install sewer and water system; number of small parks and one city park of about 50 acres; work under supervision of J. W. Webb, City Engr. (Lately noted.)

S. C., Charleston—Folly Beach Realty Co., capital \$5000, inceptd. with C. R. I. Brown, Prest., N. H. Blitch, V.-P. *

Okla., Bristow—For full details see Water Works.

S. C., Orangeburg—City contemplates establishing park near Edisto River. Address The Mayor.

Tenn., Chattanooga—Crescent Land Co. will develop park on Cleveland Pike.

Tenn., Chattanooga—John Parks purchased 1000 acre east of Missionary Ridge; reported to develop for subdivision.

Tex., Dallas—Cassidy Realty Co., cap. \$33,100, inceptd. by A. L. Egan, W. L. Casey, J. H. Cassidy.

Tex., San Antonio—Narcissa Place Co., cap-

ital \$32,000, inceptd. by Narcissa C. Brison,, W. E. Smith, Sue G. Whiting.

Va., Norfolk—Franklin Realty Co., capital \$25,000, inceptd. with H. W. Dure, Prest.; B. R. Gary, Secy.

W. Va., Charleston—Loudon Heights Co., capital \$300,000, inceptd. by G. H. Caperton, C. P. Myer, W. A. Ohley.

W. Va., Huntington—City, L. D. Newman, Commr. contemplates extensive improvement to parks and boulevard system; will construct sunken garden in Lake Chapascanowe; wading pool in Four Pole, etc.; plans by Meador & Handloser Archts.

Lumber Manufacturing.

Ala., Alliston—Ingham-Burnett Lumber Co., capital \$200,000, inceptd. by S. K. Ingham, E. L. Burnett, Ross C. Smith.

Ala., Tuscaloosa—Kaul Lumber Co., let contract to Woolsey Fennell, to lay 3½ mi. railroad track extending main line into timber tract in Bibb County; approx. cost \$10,000 to \$12,000.

Ala., Vance—Deal-Power Lumber Co., W. E. Bonham, will rebuild mill lately burned 36x130 ft.; install circular mill, cost \$25,000; ordinary mill construction bldg.; daily output 50,000 ft.; will install steam nigger and modern equipment; all mch. purchased.

Fla., Jacksonville—Tropical Woods Corp., capital \$500,000, inceptd. with F. E. Farnsworth, Waverly, Mass., Prest.; W. I. Lyman, Secy.

Miss., Lexington—Hooker Lumber Co., capital \$10,000, inceptd. by O. D. Hooker, L. S. Gurwell.

Mo., Kansas City—Doughty Lumber Co., capital \$50,000, inceptd. by A. P. Gunther, W. E. Doughty, Frank Gunther.

Tenn., Knoxville—Hiwassee Lumber Co., capital \$50,000, inceptd. by T. J. McDonald, D. A. Howell and Herley Fowler.

W. Va., Charleston—Moore Lumber Co., has purchased track of hardwood timber, will mfr. 10,000,000 ft. of lumber; will install 7-ft. band mill. (See Mch. Wanted—Band Mill; Locomotive; Trucks (Log); Rails (Steel).)

W. Va., Huntington—Dickerson Lumber Co. increased capital to \$200,000.

Metal-Working Plants.

Mo., Kansas City—Admiral Hay Press Co., capital \$100,000, inceptd. by C. L. Cookson, M. C. Golt, R. L. Chilton.

Mo., St. Louis—Monogram—Tabor Monogram Co., capital \$100,000, inceptd. by J. C. Stiles, Irma A. Tabor, Rob. Schlumberger.

Tex., Dallas—Foundry Device Co., inceptd. by J. A. Smitham, Lydia Levy, P. G. Meyer.

Tex., Houston—Shock Absorber—Crown Shock Absorber Co., capital \$5000, inceptd. by Sidney B. Segura, Paul A. Leckrone, Joe A. Eagle.

W. Va., Huntington—Barrel Jack—Universal Machine & Mfg. Co., capital \$25,000, inceptd. with J. H. Power, Prest.; C. R. Schurman, Secy.; is erecting plant on W. 15th St. to mfr. barrel jacks.

Mining.

La., Houma—Marble—D. C. Griffing, Bude, Miss., interested in establishing plant to mfr. marble from sea shells.

Mo., Carthage—Marble—Arnoste Marble Co., capital \$50,000, inceptd. by A. Arnoste, K. D. Steadley, T. C. Pennington.

N. C., Charlotte—Stone—Carolina Crushed Stone Co., capital \$15,000, inceptd. by L. C. Hunter, H. J. Dunavant, U. X. Cullum.

N. C., New Bern—Lime—Shell Rock Lime

Co., capital \$50,000, inc. by E. H. Meadows, W. B. R. Guionx.

Tenn., Estill Springs—Estill Sand & Gravel Co., organized with J. H. Black, Prest.; E. F. Kaiser, Secy., Louisville, Ky.; will develop 85 acres; daily output 400 tons.

W. Va., Falling Waters—Limestone—F. A. Jones Stone & Lime Co., F. A. Jones, Prest., Zanesville, O., will develop 43 acres of limestone; daily output of mines 10 cars of open hearth limestone; equipment purchased. (Lately noted under Martinsburg, W. Va.)

Miscellaneous Construction.

Ala., Mobile—Harbor Improvements—War Department, Maj. Earl North, Engr. will supervise improvement work for which appropriations were just made in Mobile harbor, etc.; will increase width of Channel at bend nr. Chocotaw Point from 220 to 300 ft.; approx. \$300,000; plans for improvements to Tombigee-Warrior system call for strengthening of dams, 10, 11, 12; will widen channel to width of 150 ft.; construct 17 lock houses, etc., cost \$86,700; work at Gulfport calls for dredging channel to depth of 23 ft., with width of 300 ft., cost about \$100,000; other improvement work will be Pass au Heron channel, \$20,000; Pascagoula harbor, \$25,000; Biloxi harbor, \$10,000.

Fla., Tampa—Harbor Improvements, etc.—City, A. D. Hall, Mgr. is receiving bids for harbor improvements; \$600,000 available. (Lately noted to construct docks, bulkheads, warehouse, installing cranes, etc.)

La., New Orleans—Shed—Dock Board authorized reconstruction of Seventh St. shed; also let contract at \$17,027 to Hattiesburg Creosoting Co., for creosoting piling for fender to locks of Industrial canal.

Miss., Clarksdale—Levee—Yazoo-Mississippi Delta Levee Board of Commrs. let contract at \$118,830 to Owen, Bass & Gaddis, Jackson, Miss., for concrete levee work on units No. 1, 2, 3, 4.

N. C., Franklin—Lake—W. S. Witham, Atlanta, Ga., reported interested in development of lake on Rabbitt Creek for resort.

Tex., Houston—Harbor Improvements—Houston Harbor Board, R. C. Allin, Port Director, has \$750,000 appropriation to complete Houston ship channel (lately noted) from Baytown to Sims Bayou, within 4 mi. of turning basin; will develop channel from 25 to 30 ft. deep and 100 to 150 ft. wide; will soon invite bids; L. M. Adams, U. S. Engr., in charge of River and Harbor work.

Other appropriations include the following: \$240,000 for maintenance of Galveston harbor and channel; \$100,000 for Texas City harbor and channel; \$20,000 for Port Bolivar; \$300,000 for Beaumont, Port Arthur and Orange; \$61,000 for Caddo Lake dam and \$100,000 for other projects.

Miscellaneous Enterprises.

Ala., Birmingham—Publishing—New Era Banner Publishing Co., capital \$12,000, incorporated by William H. Bonds, H. Sorrell and James C. Minter.

Ark., Texarkana—Laundry—Royal Bros. Laundry, W. E. Ralph, Prest., 214 Elm St. will erect laundry; 50x140 ft.; cost of building 10,000; cost of mch. \$30,000; construction by day labor; Witt, Sebert & Halsey, Archt.

Fla., Clearwater—Construction—Pinellas Construction Co., capital \$200,000, inceptd. with A. P. Avery, St. Petersburg, Prest.; W. Puckett, Treas.

Fla., Formosa—Building Materials—Kissam-Harris Newell Co., capital \$25,000, in-

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cpd. with E. W. Kissam, Prest.; Julian H. Harris, V.-P.; Sidney P. Newell, Secy., all of Orlando, Fla.

Fla., St. Petersburg—Incinerator—For full detail see Bridges, Culverts, Viaducts.

La., Shreveport—Bottling—Southern States Bottling Co. capital \$50,000, inctpd. with H. H. Howard, Prest.; A. M. Jones, V.-P.

Md., Baltimore—Laundry—Urban Laundry Co., let contract to Consolidated Engineering Co., Calvert Bldg., for laundry; Monroe St and Clifton Ave.; 220x150 ft.; company later plans to erect additional building.

Mo., Kansas City—Construction—Bruening Real Estate and Investment Co., capital \$210,000, inctpd. by Leo & J. A. Bruening, Rose M. Dunn.

Mo., Springfield—Publishing—Farm Club News, Publishing and Co-operative Assn., capital \$200,000, inctpd. by Walter Wadsworth, M. S. Corson, E. T. Severns.

N. C., Asheville—Apartment—Merrimon Apartment House Co., capital \$50,000, incorporated by H. A. Dunham, Charles N. & J. S. Malone.

S. C., Gaffney—Publishing—Gaffney Publishing Co., capital \$10,000, inctpd. with T. B. Butler, Prest.; J. N. Lipscomb, V.-P.; C. F. Shields, Secy.

Tex., Sherman—Printing—Hunter Printing & Publishing Co., capital \$10,000, inctpd. by E. C. P. S. & J. L. Hunter.

Tex., Sherman—Publishing—Sherman Democrat, capital \$60,000, inctpd. by H. G. Stinnett, Bowman Mills, K. K. Hooper.

Tex., Waco—Hardware—Smith Hardware Co., capital \$20,000, inctpd. by N. H. Smith, Nat S. Smith, W. A. Morrow.

Va., Alexandria—Construction—Wardman Construction Co., increased capital to \$2,000,000.

Va., Charlottesville—Heating—Central Heating Corp., capital \$5,000, inctpd. with J. W. Wagner, Prest.; W. E. Duke, Secy.

Va., Charlottesville—Plumbing—R. L. Thomas & Co., capital \$25,000, inctpd. with R. L. Thomas, Prest.; J. A. Croissant, Secy.

Va., Norfolk—Construction—D. W. & R. D. Godwin, capital \$10,000, inctpd. with R. D. Godwin, Prest.; Edgar J. Hecht, Secy.

Va., Petersburg—Street System—American Spotless Street System increased capital to \$450,000.

Va., Purcellville—Grandstand—Loudoun County Community Assn. will rebuild burned grandstand.

Va., Roanoke—Printing—Journal Ptg. & Publishing Co., lately noted organized with W. Ryland Martin, Prest., has plant; will install 1 cylinder press; linotype machine, etc. (See Mch. Wanted—Printing Plant Equipment.)

W. Va., Bluefield—W. & D. Electrical Supply Co., capital \$25,000, inctpd. by J. T. Walker, C. S. Diffenderfer, L. R. McConnell.

W. Va., Clarksburg—Fairmont Theater Co., capital \$50,000, inctpd. by C. C. Robb, Claude Robinson, P. P. Steptoe.

W. Va., Huntington—Redrying—Burley Tobacco Growers Co-operative Assn., Ralph M. Barke, Director, interested in erection of steam drying plant.

Miscellaneous Factories.

Ala., Anniston—Soap—Poland Soap Works increased capital stock \$5000.

Ala., Birmingham—Air Reduction Sales Co., Atlanta, Ga., purchased 3½ acres land at 29th Ave. and 25th St. and will erect plant to mfr. acetylene, nitrogen, argon and other atmospheric gas products, and equipment for oxy-acetylene welding, etc.; cost approx. \$250,000.

Fla., Ft. Lauderdale—Rugs, etc.—W. G. Carroll, W. Palm Beach, and Chamber of Commerce interested in establishing plant to mfr. rugs, rope and twine from fibre of palmetto.

Fla., Jacksonville—Chemical Polishes, etc.—Garage Equipment Co., 732 W. Adams St., organized with L. P. Weathers, Prest.; O. T. Edwards, V.-P.; O. M. Edwards, Secy.; will mfr. chemical polishes, paints, cements, etc.; install mch. for mixers, etc. (Lately noted under Motors.)

Fla., Jacksonville—Ice Cream—Palmer Bros., A. Palmer, Gen. Mgr., will build ice-cream plant and milk depot in fall; hollow tile; cost about \$10,000.

La., Monroe—Roofing—Richardson Co., let contract to Austin Co., Cleveland, Ohio, for construction of plant; steel and reinforced concrete, faced with corrugated iron; 2-story; 30x300 ft.; ultimate investment \$750,000; now receiving bids on reinforcing steel, sand, gravel, cement, lumber and corrugated lumber.

Fla., Tampa—Syrup—Tampa Okla-Cola Co., J. L. Dickey, V.-P. will install plant to mfr. syrup for use at soda fountain.

Ga., Atlanta—Atlanta Glass Mfg. Co., capital \$500,000, organized with F. J. Coledge, Jr., Prest., will construct 2 units of plant with big yearly capacity of bottles; other units will be constructed later.

La., Shreveport—Soap—Sunshine Soap Co., capital \$100,000, inctpd. with W. A. Vickers, Prest.; R. L. Mayfield, V. P.; J. M. Crimmett, Secy.

Md., Baltimore—Paints—The White Co., C. M. Stengle, Prest., 206 Water St., will construct 3-story, brick and concrete building.

Md., Baltimore—Mayonnaise—Gelfand Mfg. Co., 210 S. Paca St., Simon Gelfand, Prest., has plans by H. Epstein, 330 15th St., N. E., Washington, D. C., for fireproof building (lately noted); 40x120 ft.; will install cappers, fillers, vacuumizers, washers, conveyor, etc.; cost \$100,000. (See Machinery Wanted—Canning Machinery.)

Mo., Aurora—Shoes—Juvenile Shoe Corp., may establish factory; Address Chamber of Commerce.

Mo., Jefferson City—Artificial Flowers—B. Steinbach & Co., St. Louis, capital \$20,000, inctpd. by B. Steinbach, C. E. Krausnick, Leon Steinbach.

Mo., Kansas City—Cereals Co., capital \$500,000, inctpd. by E. V. Hoffman, W. R. Duerr and E. T. B. Dunn.

Mo., Kansas City—Novelty Radio Products Co., inctpd. by C. B. Couch, R. E. McClintock and J. V. Jack.

Mo., St. Louis—Superior Book Mfg. & Specialty Co., capital \$20,000, inctpd. by LaSalle Crowder, Martin Arnold and Adam Schenck.

Mo., Springfield—Domino Baking Co., capital \$20,000, inctpd. by Domino and B. A. Denzero and Roy Bishop.

Mo., St. Louis—Wood Preserver—C. A. Wood Preserver Co., increased capital to \$100,000.

Mo., St. Louis—Crayons, etc.—Grapho Crayons, capital \$50,000, inctpd. by W. L. Deist, R. H. Taylor; to mfr. crayons, chalks, paints, etc.

Mo., St. Louis—Radio—American Radio Co., capital \$50,000, inctpd. by C. M. Vermillion, A. W. Kauffman, A. C. Cochran.

Mo., St. Louis—Dental Supplies—Hisey Mfg. Co., capital \$25,000, inctpd. by A. M. Hisey, M. K. Roff, Albert Smith, Jr.

N. C., Asheville—Southern Spar & Mica Co., Haywood Bldg., will install equipment

for mfg. artificial marble in connection with present concrete products. (See Mch. Wanted—Artificial Marble.)

S. C., Sumter—Creamery—Sumter Ice & Fuel Co., E. H. Moses, Mgr., will erect creamery; 30x50 ft.; fireproof; S. R. Young, Construction Engr.; construction by owners. (Lately noted.)

Tenn., Chattanooga—Chemical—Burkhart Schier Chemical Co., capital \$50,000, inctpd. by A. C. Burkhart, M. E. Lane, John H. Cantrell.

Tex., Dallas—Federal Glass & Paint Co., Wesley Norris, Secy., let contract to Munn Construction Co., Dallas, to construct plant; 147x93 ft., 5 story and basement; reinforced concrete; fireproof; O. D. Hill, Archt.

Tex., Dallas—Chemical—Allied Chemical Co., capital \$60,000, inctpd. by A. B. Farrington, W. R. Sparkman, Earl Scott.

Tex., Houston—Nut Products—Houston Nut Products Co., capital \$20,000, inctpd. by Isidore Schwartz, Emanuel Schwartz, Arthur Silverberg.

Tex., Rosenberg — Bottling — Rosenberg Bottling Works will install bottle soaking and sterilizing machine with capacity of 500 bottles per hour; will install automatic bottling machine.

Va., Norfolk—Baking—Liberty Baking Co., capital \$25,000, inctpd. with E. L. Potter, Prest.; E. M. Whitehurst, Secy.

Va., Portsmouth—Drugs—Gayle Drug Co., capital \$25,000, inctpd. with Walter S. Calpeper, Treas.; L. Privett, Secy.

Va., Richmond—Ice Cream—Horn Ice Cream Co., will erect ice cream plant N. E. corner Seventh and Leigh Sts.; concrete and steel; 76x100 ft.; building and equipment cost \$200,000; K. W. Schantry, Inc., Archt., Buffalo, N. Y.; Consolidated Engr., Co., Contrs., Baltimore, Md.

Va., Richmond—Building Supplies—Structural Gypsum Corp., capital \$10,000, inctpd. with Joseph Myshrahl, Bloomfield, N. J., Prest.; John R. Williamson, Ramsey, N. J., Secretary.

W. Va., Montgomery—Mine Cars—Coal Valley Machine & Electric Co., E. R. Howery, Secy., has 2 acre site and will erect plant; first building will be 50x100 ft.; fireproof; mfr. all kinds of steel, iron or electrical work mine cars; C. H. Williamson & Co., Contr.

Motor Cars. Garages, Tires, Etc.

Ala., Birmingham—Hill Grocery Co., 16th St. and 3rd Ave. will erect \$9400 garage.

Fla., Eustis—Smook & Groin will construct building for tire vulcanizing and auto top plant.

Fla., Jacksonville—McCloud-Dowling Co., capital \$25,000, inctpd. with J. A. McCloud, Prest.; J. A. Heagy, V.-P.; W. H. Dowling, Secy.

Fla., Jacksonville—Welders Supply Co., capital \$25,000, inctpd. with Robt. L. Bilbert, Prest.; J. W. Oglivie, V.-P.; A. M. Cushman, Secy.

Ga., Atlanta—Blue Diamond Motor Co., 317 Augier Ave. will erect frame and concrete building.

Md., Baltimore—Franklin Motor Car Co. has plans by Otto G. Simonson, Inc., Maryland Casualty Tower, for service station and showrooms at 1107-09 Maryland Ave. as addition to present building; 1 and 2-story; brick; 90x100 ft.; cost about \$30,000.

Miss., Bollixi—Standard Motor Co., capital \$20,000, inctpd. by Roy F. Chinn and others.

Mo., Kansas City—Automotive Electric Co., capital \$12,500, inctpd. by W. S. and E. A. Reid and G. F. Skinner.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., Kirkwood—Harper Motor Co., capital \$30,000, inctpd. by E. O. Harper, Joseph Coulter, J. R. Matthews.

Mo., St. Louis—Rode-Frerihs, capital \$100,000, inctpd. by A. F. Rode, Otto Frerihs, I. B. Miller.

N. C., Charlotte—Shaw Tire Co. let contract to J. P. Propst, for remodeling building at 6th and College Sts. for garage and display room; cost \$10,000.

N. C., Charlotte—Standard Oil Co., reported to erect automobile service station.

Okla., Ponca City—Star-Bailey Motor Co., capital \$6000, inctpd. by Mose Star, E. J. Bailey, Dorothy J. Brunt.

Okla., Tulsa—Ryan Motor Co., capital \$300,000, inctpd. by F. J. Ryan, G. R. McCullough, A. E. Bradshaw.

S. C., Greenville—Eugene F. Bates let contract to Fiske-Carter Construction Co., Greenville, to construct automobile repair shop; 65x95 ft.; brick concrete and steel; J. E. Sirrine & Co., Greenville, Archt.

S. C., Greenville—Moore Motors Co., organized with E. L. Moore, Prest., Dillon, S. C.; J. W. Moore, Fork, S. C.; V. P.

Tex., Cross Plains—Cross Plains Motor Co., capital \$5000, inctpd. by A. C. Dodson, P. W. Townsend, R. F. Townsend.

Tex., Temple—Fourth Street Motor Co., capital \$10,000, inctpd. by F. S. Lee, John Younts, F. J. Mautush.

Tex., Wichita Falls—Lloyd Weaver Co., capital \$45,000, inctpd. by Lloyd Weaver, C. W. Snider, Claude F. Hill.

Va., Alexandria—Remschel Motor Co., capital \$50,000, inctpd. with A. M. Remschel, Prest.; John G. Graham, Secy.

Va., Norfolk—Franklin Garage Corp., let contract to Baker & Brinkley, construct brick garage; cor. Cove St. and Chesapeake Lane; cost \$20,000.

W. Va., Clarksburg—Garrett Automobile Co., increased capital to \$77,000.

Railways.

Miss., Grenada—G. C. Brown Lumber Co., reported to have completed plans to build railroad from Grenada east through the valley of the Yalobusha River to Calhoun City, Miss., about 32 mi. connecting there with a branch of the Mobile & Ohio Railroad.

W. Va., Beckley—Virginian Railway Co., has let contract to H. M. Waugh, of Bluefield, W. Va., to build 3.6 mi. of heavy railroad line from connection with Virginian & Western Railroad at Virwest, W. Va., down Laurel Fork. Construction includes building seven concrete bridges. H. Fernstrom, Norfolk, Va., is Ch. Engr.

W. Va., Panther—Hardy Coal Co., of Huntington, W. Va., has awarded contract to H. M. Waugh, of Bluefield, W. Va., to build a railroad branch 5.8 mi. long up Four Pole Creek from connection with the Norfolk & Western Railway near Panther.

Railway Shops, Terminals, Round-houses, Etc.

Tex., Waco—Missouri, Kansas & Texas Ry., F. Ringer, Ch. Engr., St. Louis, Mo. reported to have let contract for steel work on locomotive shop at Bellmead to Mt. Vernon Bridge Co., Kansas City, Mo.; cost including foundation and equipment \$1,500,000.

Road and Street Construction.

Alabama—State Highway Dept., Montgomery, Ala., will lay 2 roads. For full detail see Mch. Wanted—Road Construction.

Ala., Birmingham—City let contract to Dunn Construction Co., at \$147,371, to pave

5th Ave., South, from 17th to 27th Sts.; bituminous pavement on concrete base; A. J. Hawkins, City Engr.

Ala., Carrollton—Pickens County Comms. For full detail see Mch. Wanted—Road Construction.

Ala., Decatur—Morgan County Board of Revenue. For full detail see Mch. Wanted—Road Construction.

Ala., Gadsden—City let contract to Lasley Brothers, at \$28,508.75, to pave Forest Ave. from 12th to Franklin Sts., 11th from Chestnut to Walnut, and Cherry from 4th to 5th; asphaltic concrete; to C. O. Duncan, at \$45,232.50, to lay curbs, gutters and sidewalks on 6th St., from Walnut to Randall, etc. Address The Mayor.

Ala., Mobile—Mobile County Board of Revenue and Road Comms., Thos. B. Allman, Chrmn., let contracts to J. R. Edwards, Lucedale, Miss., at \$56,635, to lay gravel following:

Moffatt road, from Semmes to 1 mi. west of Wilmer.

Dickens Ferry road, from end of concrete road at Spring Hill to Sta. 124.

Howell road, from Moffatt road to Prichard.

Ark., Ashdown—Little River County will let contract soon to lay 14 mi. road from Ashdown to Mills Ferry bridge, through Wilton; Parke Engineering Co., Engr., Pine Bluff, Ark. Address County Comms.

Ark., Fort Smith—Sebastian County, Luther Hopkins, Clk., receives bids for paving Greenwood Ave.; W. L. Winters, Engr., Fort Smith.

Ark., Hot Springs—City, Grover Smith, Engr., plans paving in several districts.

Ark., Morrilton—Conway County, Road Dist. No. 2, let contract to Moreno & Burkham, Little Rock, to lay 8½ mi. Little Rock-North Smith highway, west of Morrilton, from Faulkner County line to Pope County line. Address County Comms.

Fla., Lake City—State Highway Dept., Tallahassee, Fla., will lay 8-in. rock base on State Road No. 1, from Lake City to Wellborn, in Suwanee County; will invite bids.

Fla., St. Cloud—City. For full detail see Mch. Wanted—Paving.

Fla., Tampa—City will lay road, etc.; vote Aug. 1 on \$3,000,000 bonds. Address The Mayor.

Fla., Umatilla—For full details see Sewer Construction.

Fla., Vero—City. For full detail see Machinery Wanted—Paving.

Fla., West Palm Beach—Palm Beach County Comms. For full detail see Mch. Wanted—Road Construction.

Fla., West Palm Beach—Palm Beach County Comms., will lay 5 roads. For full detail see Mch. Wanted—Road Construction.

Ga., Americus—Sumter County Comms. will surface 7 mi. road on Americus-Ellaville highway; bituminous macadam; Jno. B. Ansley, County Engr.; W. C. Cave, Div. Engr., State Highway Dept.; invites bids.

Ga., Athens—Clark County will improve roads and bridges; voted \$150,000 bonds. Address County Comms.

Ga., Savannah—Chatham County Comms., will pave 3 roads. For full detail see Mch. Wanted—Road Construction.

Ky., Albany—State Highway Coman., Frankfort, Ky., plans expending \$50,000 to lay 4½ mi. macadam road between Albany and Monticello.

Ky., Henderson—State Highway Coman., Frankfort, Ky., let contract to Haynes, Dun-

can & Priest, at \$14,457 for 2.8 mi. Louisville-Paducah road from Cordyon to Union County line; Federal Aid Project No. 51, Section B.

Ky., Louisville—City, Board of Public Wks., will lay 4½ mi. Watterson Drive, including Cherokee Drive, Spring St., Hamilton Ave. and Underhill St. to Broadway; plans extending Kentucky St.

La., Abbeville—Vermilion Parish Police Jury plans improving highway; State Project No. 25; voted Sept. 5 on \$500,000 bonds.

La., Clinton—East Feliciana Parish Police Jury plans laying roads in Wards Nos. 1, 2, 3, 4; vote Aug. 16 on \$150,000 bonds.

La., Edgard—St. John the Baptist Parish Police Jury, plans paving and improving roads in Parish; contemplates issuing \$31,000 bonds.

La., Homer—Louisiana Highway Coman., will lay 2 roads. For full detail see Mch. Wanted—Road Construction.

La., Rayville—Richland Parish Road Comms., plan laying 14 mi. State Highway from Holly Ridge to West Carroll Parish line; bids opened July 24.

Maryland—State Roads Coman., 601 Garrett Bldg., Baltimore, Md., will lay 3 roads. For full detail see Mch. Wanted—Road Construction.

Maryland—State Roads Coman., 601 Garrett Bldg., Baltimore, Md., will lay 8 roads. For full detail see Mch. Wanted—Road Construction.

Md., Annapolis—City will improve streets and sewer system; voted \$72,000 bonds. Address The Mayor.

Md., Baltimore—Board of Awards, Wm. F. Broening, Prest., let contract to Patrick Flanigan & Sons, 2600 Harford Road, at \$58,862.50, to repave with sheet asphalt the following: North Ave. from Charles St. to Guilford Ave.; Charles St. from 29th to 31st; Evergreen Terrace from Fulton to Orem Aves.; Guilford Ave. from 23rd to 24th Sts.; Front St. from Lexington to Fayette Sts.; August E. Christliff, Highways Engr.

Md., Salisbury—Town plans laying hard surfaced extension to E. Main St. under main tracks of Pennsylvania R. R. Address The Mayor.

Miss., Vicksburg—Warren County Board of Suprvs. For full detail see Mch. Wanted—Paving.

Miss., Vicksburg—State Highway Dept., Jefferson City, Mo., will lay two roads. For full detail see Mch. Wanted—Road Construction.

Missouri—State Highway Dept., Jefferson City, Mo., plans building following roads: Dunklin County, 8.426 mi. State road from Dexter to Malden through Kennett; gravel and concrete surfacing; concrete pavement; gravel shoulders; Federal Aid Project No. 183, Section C.

Dunklin County, 5.801 mi. State road from Dexter to Malden, through Kennett; surfacing gravel; Federal Aid Project No. 183; Section B; M. S. Murray Div. Engr., Sikeston, Mo.

Missouri—State Highway Dept., Jefferson City, Mo., will lay 2 roads. For full detail see Mch. Wanted—Road Construction.

Missouri—State Highway Dept., Jefferson City, Mo., plans following:

Monroe County, 6.7 mi. State road from Paris eastward, westward and northeastward; State Aid Project No. 20,181; H. D. Griffith, Div. Engr., Hannibal, Mo.

Gasconade County, 4.116 mi. State road from Hermann to Drake; gravel surfacing; State Aid Project No. 20,185; S. M. Rudder, Div. Engr., Bristol Bldg., Webster Groves, Mo.

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Dallas County, 12.311 mi. State road from Buffalo westward, northwestward and north-eastward; State Aid Project No. 20,183; H. P. Mobberly, Div. Engr., Woodruff Bldg., Springfield, Mo.

Ozark County, 1.941 mi. State road from Gainesville to Arkansas State line; State Aid Project No. 20,187; J. H. Long, Div. Engr., Willow Springs, Mo.

Pettis County, 3.274 mi. State road from Lamonte eastward and westward through Lamonte Special Road Dist.; State Aid Project No. 20,172; A. C. Lingley, Div. Engr., Reliance Bldg., Kansas City, Mo.

Macon County, 2.803 mi. State road from La Platta southward; Daniel Eoone Trail; Scott County, 7.329 mi. State road from Calro to Poplar Bluff; gravel surfacing; Federal Aid Project No. 5; M. S. Murray, Div. Engr., Silkeston, Mo.; grand and construct drainage structures on all.

Harrison County, 2.717 mi. State road from Bethany northward and southward; 8-in. sledged stone base; rock asphalt surface; penetration bituminous macadam surface or asphaltic concrete surface; 6-in. sledged stone base with 4-in. waterbound macadam intermediate course and inverted penetration macadam surface course; 1 course cement concrete pavement; Federal Aid Project No. 8; N. R. Sack, Ballinger Bldg., St. Joseph, Mo.

Barry County, 4.571 mi. State road from Monett to Eureka Spring; Federal Aid Project No. 151; Ray Dunlap, Div. Engr., Frisco Bldg., Joplin, Mo.; grade and construct drainage structures on all.

Mo., Booneville—State Highway Dept., Jefferson City, Mo., let contract to E. C. Johnson, Carrollton, Mo., at \$9651.07, to lay 2.102 mi. State road from Booneville Township line southward; Cooper County, State aid Project No. 20,162; voted \$125,000 bonds.

Mo., Carthage—State Highway Dept., Jefferson City, Mo., let contract to Carterville Construction Co., Carterville, Mo., at \$34,912.90 for 1½ mi. State road from Carthage northeastward; concrete.

Mo., Chillicothe—City plans paving Vine and Weber Sts., with bituminous cement. Address The Mayor.

Mo., Danville—Montgomery County, McKittick Special Road Dist. plans improving highways; will lay rock road from river landing near McKittick to road in New Florence Special Road Dist.; will vote bonds. Address County Comms.

Mo., Gallatin—City plans expending \$40,000, to pave 9 blocks; asphaltic concrete; Shockey Engineering Co., Engr., Graphic Arts Bldg., Kansas City, Mo.

Mo., Jefferson City—City plans paving Madison St. between Miller and McCarty; concrete. Address The Mayor.

Mo., Jefferson City—Richard R. Nacy, City Clk., plans paving Monroe St., with penetration bituminous macadam and laying cement curbs and gutters.

Mo., Kirksville—City plans paving Marion St. Address The Mayor.

Mo., Kansas City—City, Board of Public Works, plans laying sheet asphalt pavements on following: 12th St. from Euclid to Prospect Aves.; widen part of 31st St. from Woodland to Prospect; plain concrete pavement on Ewing Ave., 56th St., 61st St., alley between Oak and Locust Sts.; rock asphalt pavement on 8th and Walnut Sts.; concrete curbing on Ewing Ave., 61st and 31st Sts.

Let contracts at \$52,553.86 for following: bituminous macadam pavement, 53rd St. from Swope Parkway to Jackson, to McTernan & Halpin; concrete pavement, 54th St. from Prospect to Agnes, to J. E. Welsh; 55th and 60th from Prospect to Agnes to Halpin & Boyle.

Mo., Kansas City—City plans grading Chestnut parkway between Independence Blvd. and Lexington Ave. Address The Mayor.

Mo., Kansas City—Board of Public Works, plans repairing pavement on Bellevue Ave., from Roanoke Park to Valentine road; Euclid Ave. from 10th, 12th and 15th to 16th Streets.

Mo., Lebanon—Laclede County let contract to Case & Killian, Marshfield, Mo., at \$31,259 to lay 5 mi. gravel road from Lebanon toward Springfield. Address County Comms.

Mo., Lebanon—State Highway Dept., Jefferson City, Mo., let contract to Davis Construction Co., Imboden, Ark., at \$19,778, for ¾ mi. St. Louis-Springfield road near Lebanon.

Mo., Lexington—State Highway Dept., Jefferson City, Mo. For full detail see Mch. Wanted—Road Construction.

Mo., Marshall—City plans paving portion of Arre St., with vitrified brick. Address The Mayor.

Mo., St. Louis—Board of Public Service let contract to Eyerman Construction Co., to pave following: Morgan Ford road from Chipewa St. to Fyler Ave., \$87,722; Knox Ave. from Wilson Ave. to Frisco tracks, \$17,555.75; Clara Ave. from St. Louis to Greer Aves., \$11,992; Elliott Ave., from Franklin Ave. to University St., \$128,684.25; to Granite Bituminous Paving Co., at \$281,265.76, Russell Ave. from Broadway to Grand Blvd.

Mo., Seymour—City plans laying curbs and gutters around public square; vote Aug. 7 on \$3500 bonds. Address The Mayor.

Mo., Trenton—J. B. Wright, Mayor, will pave Washington St. with bituminous macadam; 3500 sq. yds.; bids opened.

Mo., Troy—Lincoln County let contract to Wm. E. Cottle, Jas. Campbell and Geo. M. Burcham, for gravel road from Moscow to Ethlyn.

N. C., Ashboro—For full detail see Land Developments.

N. C., Charlotte—City plans paving 12th St., including sidewalks, McNinch St. and Victoria Ave. Address The Mayor.

N. C., Danbury—Stokes County Comms. let contracts for following:

Topsoil road from Dillard to Pine Hall; to Jesse Bennett, King, N. C.

Lay road between Capella and Flat Shoal, Meadows Township; to Cornatz Bros.

Lay road from Danbury to Peters Creek; to J. Spot Taylor.

N. C., Durham—C. B. Alston, City Clk., plans paving Fuller, Morris, Morgan Sts.; sheet asphalt.

N. C., Henderson—City will pave certain streets; plans issuing \$200,000 bonds. Address The Mayor.

N. C., Henderson—City. For full detail see Mch. Wanted—Paving.

N. C., Hendersonville—Henderson County, Board of Road Comms. For full detail see Mch. Wanted—Road Construction.

N. C., Raleigh—For full details see Land Development.

N. C., Salisbury—For full details. See Land Development.

N. C., Southport—Brunswick County Comms., let contract to W. B. Bennett, Whiteville, N. C., at \$77,751.28, for hard surfaced road from Supply to Shallotte; bituminous macadam penetration; solid sand clay base; C. R. Humphrey, City Engr., Wilmington, N. C.

N. C., Wadesboro—Anson County plans laying hard surfaced road between Wadesboro and Polkton, on Charlotte-Wilmington highway. Address County Comms.

Okla., Henryetta—City let contract to Park & Moran at \$81,018.75 to pave 2 districts. Address The Mayor.

Okla., Idabel—State Highway Dept., Oklahoma City, let contracts to John W. Rooks, McAlester, Okla., at \$548,467.08, for 51.249 mi. gravel surfaced road as follows:

Section A—14,586 cu. yds.

Section B—19,006 cu. yds.

Section C—22,768 cu. yds.

Section D—12,712 cu. yds.

Section D—11,729; all McCurtain County, Federal Aid Project No. 40; Ernest S. Alderman, State Engr., Oklahoma City.

Okla., Morris—R. Ward, Mayor, plans expending \$60,000 to pave 2½ mi. main streets; Salina gravel; asphalt treatment.

S. C., Abbeville—Abbeville County Highway Comms. For full detail see Mch. Wanted—Road Construction.

S. C., Camden—H. C. Singleton, City Clk., let contract to Southern Paving & Contracting Co., Chattanooga, Tenn., to lay 40,000 sq. yds. paving; sheet asphalt on concrete base; Carolina Engineering Co., Engr., 412 Southern Bldg., Wilmington, N. C.

S. C., Columbia—City. For full detail see Mch. Wanted—Paving.

S. C., Columbia—State Highway Dept., Columbia, S. C. For full detail see Machinery Wanted—Road Construction.

S. C., Greenwood—Greenwood County Highway Comsn., let contracts for 4.8 mi. Greenwood-Abbeville road, from Greenwood to Abbeville County line; 1.1 mi. hard-surfaced road to Greenville Paving & Construction Co., Greenville, S. C., at \$29,609.27; 3.7 mi. top soil road to J. F. Blankenship & Son, Greenwood, at \$8750.53.

S. C., Pickens County, Board of Comms., will lay roads. For full detail see Mch. Wanted—Road Construction.

S. C., Spartanburg—City Comsn., John F. Floyd, Mayor, let contract to Southern Paving & Constructing Co., at \$27,000 to lay 9800 sq. yds. paving, from Connecticut Ave. at Otis Blvd. to city limits. templates extending Broad St.

Tenn., Columbia—F. B. Wilkes, Mayor, and Maury County let contract to J. C. Moore, Columbia, Tenn., at \$8000, to lay Hampshire Pike from city limits to Columbia Military Academy; 7800 sq. yds. Kentucky rock asphalt; part construction by County Workhouse crew.

Tenn., Humboldt—City. For full detail see Mch. Wanted—Paving.

Tenn., Knoxville—City will pave Park Ave., from Gay St. to Park Ave. viaduct. Address The Mayor.

Tenn., Knoxville—City Comms., let contract to Murray Construction Co., at \$138,044.65, to pave 11 streets, including Ashland, White, Quincy Aves.; Eleanor, Walker, Pat-Tenn., Chattanooga—Mayor Chambliss con-ton, Payne, Woodbury and Lynch Sts.; Dawson Place; Marble Alley; J. B. McCalla, Commr. of Streets and Public Improvements.

Texas—Bureau of Public Works, Fort Worth, Tex., approved following projects:

Angelina County, 12 mi. gravel road on Highway No. 35; \$145,949; Federal Aid to pay \$72,679.

Milam County, 18 mi. gravel road on State Highway No. 44, between Little River and Burleson County line, via Milano; \$115,955; Federal Aid to pay \$47,189.

Fayette County, 12.87 mi. gravel road, from bridge over Colorado River, south of La-Grange to State Highway No. 3B, towards Hallettsville; Federal Aid Project No. 280; \$32,865; Government to pay 50%.

Reeves County, 11.32 mi. gravel road on State Highway No. 27, from San Antonio to

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State Highway No. 1, east of Kent; Federal Aid Project No. 240; \$45,000; Federal Government to pay 50%.

Tex., Angleton—Brazoria County Road District No. 20 plans 11.5 mi. shell surfaced road on Freeport-Houston road; \$106,350; Frank K. Stevens, Secy.

Tex., Austin—Travis County will surface 0.15 mi. State Highway No. 20 in Kimbro Dist.; 81,000 sq. yds. 1-in. bituminous topping; \$50,000; Geo. F. Matthews, County Judge; O. Leonard, County Engr.; receive bids soon.

Tex., Clarksville—Red River County plans improving 8.5 mi. Detroit Dist.; \$70,000; R. J. Williams, County Judge; J. B. Rieman, County Engr.

Tex., Coleman—Coleman County will let contract soon for 17.7 mi. State Highway No. 2; gravel surface; \$200,000; L. G. Matthews, County Judge; W. E. Dickerson, County Engr.

Tex., Coleman—Coleman County will grade, surface and construct reinforced concrete bridges and culverts on 10.6 mi. State Highway No. 7-A; proposed Federal Aid Project, No. 303; \$85,000; receive bids soon; L. G. Matthews, County Judge; W. E. Dickerson, County Engr.

Tex., Dallas—City, plans expending \$28,000 to widen Elm St. from Harwood to Olive Sts. Address The Mayor.

Tex., Dallas—City Comsn., J. D. Rose, Street Commr. let contract to Uvalde Paving Co., San Antonio, Tex., at \$28,540 to pave Reiger Ave. between Fulton and Slaughter Sts.; at 6929, to pave 9th St., between Madison and Bishop; to Central Bitulithic Co., at \$49,472, to pave Holmes St. from Romine St. to city limits; at \$11,949, to pave Munger Ave. between Haskell and Peak.

Tex., Dallas—City. For full detail see Mch. Wanted—Paving.

Tex., Dallas—Dallas County will lay 14 mi. new Lancaster road from South Oak Cliff to Ellis County line; \$600,000; receive bids soon; Arch C. Allen, County Judge, Nagle-Witt-Rollins Engineering Co., Dist. Engr., Court House.

Tex., Eldorado—Schleicher County. For full detail see Mch. Wanted—Road Construction.

Tex., Eldorado—Schleicher County will surface 4.01 mi. State Highway No. 4 in County; bituminous topping; 31,097 gals. asphalt; 1408 cu. yds. cover material; bids in about 15 days; Gibb Gilchrist, Engr. in charge, San Angelo, Tex.; C. A. Womack, County Judge.

Tex., El Paso—City. For full detail see Mch. Wanted—Paving.

Tex., Houston—Harris County Comms. Court. let contract to Haden & Austin, Hill & Marsch Sts., Houston, for asphaltic topping, and to Smith, Starkey & Browne, for base and bridge work on following:

Ellington Field gap, on Galveston road. Fairbanks gap on Cypress road.

Tex., Fort Worth—Tarrant County will lay 3.64 mi. 18-ft. bituminous macadam road on State Highway No. 40; \$40,000; Hugh L. Small, County Judge; R. V. Glenn, Const. Engr.

Tex., Georgetown—Williamson County, will improve 2 roads. For full detail see Mch. Wanted—Road Construction.

Tex., Gonzales—Gonzales County Comms. Court, J. C. Romberg, County Judge, let contract to R. G. Buckner & Son, Cleburne, Tex., at \$49,292 to lay 9.27 mi. State Highway No. 29, Road Dist. No. 6, connecting with De Witt County line.

Tex., Houston—Harris County, H. L.

Washburn, County Auditor, plans laying 5.4 mi. State Highway No. 2; shell or gravel base; bituminous topping; Chester H. Bryan, County Judge; Howe & Wise, County Engrs., First National Bank Bldg.; receive bids soon.

Tex., Houston—O. F. Holcombe, Mayor, let contract to J. M. Griswold, 716 Carter Bldg., to lay sidewalks on Daly St. from N. Main to Trentem, and Trentem St. from Daly to N. Main; 4800 sq. ft.; J. C. McVea, City Engr.

Plans paving and widening Preston Ave. from Crawford St. to tunnel, and Harrisburg Blvd. from tunnel to Milby St.

Tex., Karnes City—Karnes County, Road Dist. No. 4, let contract to Wear & Thomas, Rogers, Tex., and R. W. Colglazier, 910 Austin St., San Antonio, Tex., at \$280,000, for 14.54 mi. hard surface road through District to Bee County line; rock asphalt on macadam base; 1600 cu. yds. concrete; construct concrete drainage structures; O. N. Powell, Highway Engr., Box 108, Kenedy, Tex.

Tex., Lufkin—U. S. Bureau of Public Roads, Washington, D. C. approved plans to build 40 mi. gravel surfaced road on State Highway No. 7; Angelina County, Federal Aid Project No. 277; \$404,890; John F. Robinson, County Judge; G. R. Abney, County Engr.

Tex., Lufkin—Angelina County will lay 3 roads. For full detail see Mch. Wanted—Road Construction.

Tex., Marlin—Falls County plans laying 0.22 mi. Chilton-Waco road, State Highway No. 44; Federal Aid Project No. 202; \$89,000; E. M. Dodson, County Judge, Marlin; J. P. Wehrung, Engr., Chilton, Tex.

Tex., Muleshoe—Bailey County Comms. Court. For full detail see Mch. Wanted—Road Construction.

Tex., New Braunfels—Comal County let contract to Haden & Austin, Hill & Marsch Sts., Houston, Tex., at \$14,553.14 to lay .93 mi. State Highway No. 2 in City; bituminous macadam; construct concrete drainage structures, \$1850; Carl Roepert, County Judge; Joe H. Caldwell, County Engr.

Tex., Pittsburg—Camp County will lay 16.16 mi. State Highway No. 1-A, through County; bituminous macadam surface; \$305,000; receive bids in near future; J. A. Elfrud, County Judge; Chas. C. Chappell, County Engr.

Tex., Port Arthur—E. H. Miles, Clk., let contract to Smith Bros., Crockett, Tex., at \$450,560, to pave certain streets; 6-in. concrete base; 2-in. asphalt surface.

Tex., San Angelo—Tom Green County let contract to Harris & Powell, Tyler, Tex., at \$93,356.53 surface 13.43 mi. State Highway No. 4; gravel and macadam surface; sledged stone base; and 15.43 mi. with inverted penetration bituminous topping; J. T. Mathison, County Judge; Gibb Gilchrist, Engr. in charge.

Tex., San Antonio—Bexar County Comms. Court, Aug. M. McCloskey, County Judge, let 2 contracts to C. E. Hoff, San Antonio, Tex., and 2 to Uvalde Rock Asphalt Co., for following:

Moeglin Road from Foch Highway to San Antonio and Aransas Pass Ry.

Vance-Jackson road, from Foch Highway to Keller road.

Babeck road from Foch Highway, to point 1000 ft. beyond Callaghan road.

W. Commerce St., from 24th to 34th Sts.; all in Comms. Precinct No. 2.

Also gravel surface 2.2 mi. State Highway No. 9; bituminous topping; \$50,000; bids in about 30 days.

8.3 mi. State Highway No. 2; gravel sur-

face; bituminous topping; bids received soon; \$70,000; R. E. Kilmer, County Engr.

Tex., Sonora—U. S. Dist. Engr., Fort Worth, Tex., approved plans to lay 9.55 mi. 18-ft. road on State Highway No. 4; Sutton County, Federal Aid Project No. 272; \$45,000; L. W. Elliott, County Judge; J. W. Alger, County Engr.; will invite bids.

Tex., Waco—McLennan County plans expending \$70,000 to improve Dallas road; J. P. Lester, County Judge; Mantan Hannah, County Engr.

Tex., Weatherford—Parker County plans additional highway improvements on State Highway No. 1; \$7750; Chas. Sullivan, County Judge; H. Barry, County Engr.

Tex., Winters—City. For full detail see Mch. Wanted—Paving.

Va., Hopewell—City plans repairing Broadway from 9th Ave. to City Point and from 5th Ave. to City Point; 5th Ave. from Elder's Store to Broadway. Address The Mayor.

Va., Portsmouth—J. P. Jervey, Mgr., let contract to E. P. Lindsay, Portsmouth, to pave with concrete from Belt Line Ry. to Hamilton Ave.

Va., Williamsburg—State Highway Dept., Richmond, Va., let contract to Carter Cowles, Toano, Va., to lay 7 mi. concrete road from Williamsburg to Toano.

W. Va., Charleston—Kanawha County Court. For full detail see Mch. Wanted—Road Construction.

W. Va., Huntington—City Comms. let contract to George Hinckle, Huntington, to pave 24½, Jarrett, and Hall Sts. from 9th to Cross Sts.; brick on concrete base; plans laying sidewalks on 3rd and Guyandotte Sts.; Mat Miser Comms. Streets and Sewers.

W. Va., Huntington—City Comms., Mat Miser, Commr. let contract to Gerchow & McGinnis, to pave Latulie Ave. from Division St. to Stanley property.

W. Va., Wheeling—Ohio County Comms., will rebuild Glenn's run road east of Warwood; bids opened July 29.

W. Va., Wheeling—Ohio County Comms. For full detail see Mch. Wanted—Road Construction.

Sewer Construction.

Ala., Huntsville—For full detail see Textile Mills.

Fla., Umatilla—City will construct sewer and water system and pave streets; votes Aug. 5 on \$22,000 water and sewer bonds and \$57,000 for streets; Address The Mayor.

Cal., LaGrange—City let general contract to J. B. McCrary Co., Atlanta, Ga., to construct extension to sewer system; cost approx. \$50,000; G. H. Sargent, Engr. in charge.

La., Gretna—City will construct ditches, canals, drainage and outlets and extending water work system; votes Sept. 12 on \$77,000 bonds; Address The Mayor.

Md., Annapolis—For full detail see Road and Street Construction.

Md., Hyattsville—For full detail see Land Development.

Miss., Batesville—For full details see Mch. Wanted—Sewer Construction.

Mo., Plattsburg—City receives bids Aug. 6 for construction of sewer system; approx. cost \$75,000. Address The Mayor.

Mo., Trenton—City contemplates extending Sewer District No. 1; address The Mayor.

N. C., Asheboro—For full detail see Land Development.

N. C., Lincolnton—For full details see Mch. Wanted—Water Works and Sewer Extension.

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N. C., Mt. Holly—For full details see Water Works.

N. C., Raleigh—For full details see Land Development.

N. C., Salisbury—For full details see Land Development.

N. C., Taylorsville—For full details see Mch. Wanted—Water Works and Sewer System.

Okla., Bristow—For full details see Water Works.

Okla., Tulsa—City, Charles Schultz, engr., is having survey made by W. W. Horner, Consult. Engr., St. Louis, Mo. for sewer (lately noted); cost \$900,000.

Okla., Wilburton—For full details see Water Works.

S. C., Honea Path—For full details see Water Works.

Tenn., Lebanon—City let contract at \$220,000 to Tennessee Manufacturing & Construction Co., Lebanon, to construct sewer and water system.

Tenn., Murfreesboro—City will construct sewerage system; votes Aug. 3 on bonds. Address The Mayor.

Tenn., Nashville—Board of Public Works opened bids for construction of fourth section of Brown's Creek sewer; O. H. Looney, was lowest bidder at \$60,270.86; sewer will be about 3000 ft. long and 64 in. in diam.

Tex., Fort Worth—City let contract for cast iron pipe for construction of 2 inverted siphons for intercepting and collector mains for sewage disposal plant; J. C. Lord, Water Commr.

Tex., Hondo—For full detail see Mch. Wanted—Sewer Construction.

Tex., Jacksboro—For full detail see Mch. Wanted—Sewer Construction.

Va., Portsmouth—Dept. of Public Service, J. P. Jervey, City Mgr. invites bids on completion of drainage system for storm water for Upper High St.; also invites bids for construction of sewers in Hatton St. and West Park View.

W. Va., Huntington—City contemplates constructing storm sewer to drain Walnut Hills, Gallaville and 28th St.; Mat Miser, Commr. of Streets and Sewers.

Street Railways.

Md., Baltimore—United Railways & Electric Co. will build extension of several blocks to Venable Park stadium. H. B. Flowers is Gen. Mgr.

Telephone Systems.

Ark., Conway—R. G. Reid and R. J. Turner, of Southwestern Bell Telephone Co. having preliminary plans prepared for improved telephone system.

N. C., Raleigh—State Highway Comm., Frank Page, Commr., Raleigh, N. C. will install radio broadcasting and receiving station in offices in Tarboro, Raleigh, Kinston, Wilmington, Durham, Greensboro, Charlotte, Elkin, Marion, Asheville.

S. C., Clemson College—Board of Trustees of Clemson College installing radio station.

Textile Mills.

Ala., Huntsville—Merrimack Mfg. Co., Ward Thoron, Boston, Mass., Treas., is constructing sewer system in village of Merrimack; cost \$50,000.

Md., Centreville—W. T. Akins, E. O. Willis, Secy. Chamber of Commerce, has site and will construct textile mill, lately noted; plans being prepared; cost approx. \$35,000.

Md., Sykesville—Woolen—Oakland Woolen Mills Co., John Melville, Pres. let contract to

Spencer Construction Co., Baltimore, for erection of addition to mill; 2 story; 200x70 ft.; brick and steel; construction begun.

N. C., Durham—Cotton—Morven Cotton Mills, capital \$20,000, inceptd. by N. O. Rockwood, Poughkeepsie, N. Y., John J. Ingle, New York, Mary J. Jones, Salisbury.

Okla., Muskogee—Cotton—Chamber of Commerce, C. C. Lydick, Gen. Mgr. interested in establishing cotton mill. (See Mch. Wanted—Machinery (Cotton Mill).)

Tenn., Knoxville—Knoxville Spinning Co., L. D. Tyson, Prest., let contract to W. P. Lawson & Sons, Knoxville, for mfg. plant, lately noted; 165x70 ft., 3 story, mill construction cost \$70,000; will install knitting machines, cost \$100,000; equipment purchased; daily output 500 doz. union suits.

Va., Schoolfield—Bleachery—Riverside and Dan River Cotton Mills, Inc., Danville, reported to have let contract to General Electric Co. for 2800 motors to be directly connected with looms in Riverside division. (Lately noted to erect addition.)

Water Works.

Ark., Fayetteville—City, Allan Wilson, Mayor, will extend water plant to connect with plant at Clear Creek; \$50,000 bond issue.

Ark., Fort Smith—City Comsn. approved plans for improvements and extension to water system; will lay mains, construct reservoir on Crowe Hill, etc.; cost \$500,000.

D. C., Washington—Maj. M. C. Taylor, Engr. in charge, opened bids for construction of 8 in. conduit for new water supply system; Arundel Corp., Pier 2 Pratt St., Baltimore, lowest bidder.

Fla., Lakeland—City, J. E. Johnson, let contracts for 2000 gal. per min. electrical driven centrifugal pumps; approx. \$8000.

Fla., Umatilla—For full details see Sewer Construction.

Fla., Vero—City let contract to Edw. G. Ladd, Jacksonville, Fla. to construct water works system; cost about \$51,197.60.

La., Gretna—For full details see Sewer Systems.

La., New Orleans—Sewer and Water Board, Charles J. Theard, Chrmn. approved extension of 16-in. water main on Canal St. and Canal Blvd., 12-in. pipe extension from Scott St. to Adams Ave.; cost approx. \$65,000.

Md., Baltimore—City, Wm. A. Megraw, Water Engr., recommend laying of 12-in. water main from Eastern Ave. to pumping station at Bay View, renewal of fire hydrants and installation of 2 pumps in pumping station, each with capacity of 2500 gal. per minute.

Md., Hyattsville—For full detail see Land Development.

Mo., Sarcoise—City will install well and pumping mch. for water system and extension to mains; voted \$12,000 bonds. Address The Mayor.

Mo., St. Louis—Board of Public Service let contract at \$199,000 to Worthington Pump & Machinery Corp., Buffalo, N. Y., for pump at Bissel's Point service station; triple expansion; daily capacity of 20,000,000 gals.

N. C., Ashboro—For full detail see Land Development.

N. C., Hendersonville—City let contract to Wilson & Kelly, Asheville, for constructing reservoir and 15 in. pipe line.

N. C., Lincolnton—For full details see Mch. Wanted—Water Works and Sewer Extension.

N. C., Mt. Holly—City let contract to W.

A. Everett, Charlotte, for construction of water works and sewerage system.

N. C., Salisbury—For full details see Land Development.

N. C., Taylorsville—For full details see Mch. Wanted—Water Works and Sewer System.

N. C., Wilmington—City let contract at \$208,000 to Tucker & Laxton, Charlotte, for changing water intake from present location to Tooner's Creek, constructing filter plant, basin work and tanks and towers; contract for pipe let to United States Cast Iron Pipe Co., Birmingham, Ala.

Okla., Bristow—City will complete water and sewer system, construct lake of 16 acres, complete park pavilion, etc.; will vote on \$165,000 bonds; lately noted letting contract to V. V. Long, Oklahoma City, Okla., for engineering work on water and sewer system.

Okla., Cushing—For full details see Gas and Oil.

Okla., Wilburton—City Council let contract at \$175,000 to Ladd Constructing Co., Kansas City, Mo., for extending water and sewer constructing system.

S. C., Honea Path—Chiquola Mfg. Co. let contract to Henry Construction Co., Greenville, S. C. for construction of water and sewer system for 132 dwellings; contract for plumbing let to J. C. Arnold, Greer, S. C.; contract for steel tank on trestle let to R. D. Cole Mfg. Co., Newnan, Ga.; J. E. Sirrine & Co., Greenville, S. C., Engrs.

S. C., Walhalla—For full details see Mch. Wanted—Fire Department House, etc.

Tenn., Lebanon—For full details see Sewer Construction.

Tex., Austin—For full details see Electric Plant.

Tex., Robstown—Neuces County Water Improvement District No. 3 let contract to Smith Bros., Crockett, Tex. to construct irrigation and sewer plant; irrigate about 4900 acres.

Tex., Childress—City let the following contract for water works improvements; to F. P. McElwath, Corsicana, for dam, spillway, etc.; to Hamilton Bros. Constr. Co., Taylor, for pipe line, pump house, etc.

Tex., Pharr—City will improve water works; \$20,000 available; Address The Mayor.

W. Va., Fairmont—City Board of Directors let contract at \$16,450 to Rogers & Shumway Construction Co., Worthington, for construction of river intake at water station.

Woodworking Plant.

Mo., Springfield—Springfield Furniture Co., capital \$200,000, inceptd. by M. Holbrook, H. B. McDaniel and M. W. Coolbaugh.

Mo., St. Louis—Hardwood Flooring—Sterling Hardwood Flooring Co., capital \$75,000, inceptd. with J. H. Allen, Prest.; will establish plant at 3316 N. Broadway.

N. C., Winston-Salem—Chairs—Winston-Salem Chair Co., Wauhtown and Glendale Sts. (lately noted inceptd., capital \$125,000) organized with Henry H. Barnes, Prest.; Chas. L. Creech, Secy.-Treas.; has building; mch. all purchased; mfr. chairs to match dining room and bed room suites, daily capacity 25 doz.

Tenn., Memphis—Memphis Saab & Door Co., 673 S. Dudley St., L. G. Barnard, Prest., purchased site at Roland St. and Railroad Ave. and will erect plant; probably 3-story; 800x200 ft., fireproof; concrete floors, steel sash windows and sprinkler system.

Tenn., Memphis—Cooperage—C. J. Haase will erect building on W. Main St. to be oc-

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cupied by J. C. Penoyer & Co., for cooperage mch'y. plant; 2-story; brick and concrete; cost \$75,000.

FIRE DAMAGE

Ala., Goodwater—B. F. Grays lumber plant; loss about \$30,000.

Ark., Hot Springs—Missouri Mill Co.'s plant; loss \$50,000.

Fla., Jacksonville—Knight Building, Laura and Adams Sts., occupied by J. C. Van Etten Co., Stinson Kodak Co., Valet System, Jno. I. Bronson Kodak and others.

Ga., La Grange—Red Star Department Store owned by Mrs. W. E. Morgan.

Ky., Corbin—Frank Gregory's residence; loss \$20,000.

Ky., Smiths Grove—Tutt Snodgrass' residence; loss about \$10,000.

La., Lake Charles—Lake Charles Amusement Co.'s pleasure pier.

Md., Linthicum Heights—Wm. H. Saunderson's residence, Maple Ave.; loss \$18,000; Wm. B. Linthicum's residence; loss \$12,000.

Mo., Ste. Genevieve—Jockert-Yarley Mercantile Co.'s store; loss \$50,000.

Mo., St. Louis—Building at 1906 Pine St. owned by W. C. Rumsey, Webster Groves, Mo.

Mo., St. Louis—Cinderella Theater, Iowa Ave. and Cherokee St., owned by Harry and Eugene Freund Bros.

Mo., St. Louis—First Free Will Negro Baptist Church, Rev. A. J. Donaldson, Pastor; loss \$50,000.

N. C., Fayetteville—Dr. Jno. A. Mackethrhn's 3 buildings.

N. C., Fayetteville—Fayetteville Ice & Mfg. Co.'s engine house and tank room.

N. C., Henderson—Vance Milling Co.'s flour mill; loss about \$5000.

S. C. Camden—Kirkwood Hotel; loss \$40,000. Address The Proprietor.

S. C., Furman—James C. Furman Hall of Science at Furman University; loss \$50,000; Alester G. Furman, Secy. Board of Trustees.

S. C., Leesville—H. F. Hendrix's hotel.

S. C., Timmons—Farmers Gin Co.'s plant; loss about \$30,000.

Tenn., Madisonville—Sanderson Lumber Co.'s planing mill and lumber yard; loss \$25,000.

Tex., Beaumont—Magnolia Petroleum Co.'s tanks; \$1,500,000 loss.

Tex., Comanche—Mrs. V. H. Thodberg's residence; loss \$20,000.

Tex., Dallas—Brown Cracker & Candy Co.; loss \$50,000.

Tex., Greenville—T. P. Bethel's store; Dave Johnson's building.

Tex., Laredo—Properties of Humble & Pierce Oil Co. and Government fumigation plant; loss about \$150,000.

Tex., Pioneer—Engleman Hotel & Cafe; loss \$20,000. Address The Proprietor.

Tex., Walnut Springs—Masonic Hall and Randall Hardware Co.'s store loss \$75,000.

Va., Purcellville—Loudoun County Community Assn.'s grand stand; loss \$5000.

Va., West Point—Union Box & Lumber Co.'s plant; loss \$75,000.

Ave., prepared plans for \$40,000 building, Washington and Adelaide Sts.; 3 stories and basement; 40x124 ft.; brick; semi-fireproof; owner builds.

N. C., Biltmore—L. B. Jackson & W. A. McGeachy, Cashier, Biltmore-Oteen Bank, will erect \$50,000 building for Biltmore Apts., Hendersonville Rd.; Old English design; hollow tile and stucco; 9 apartments; garage space; balcony to each apartment; Chas. L. Parker, Archt.

N. C., Charlotte—Dr. R. Z. Linney will erect \$25,000 building on N. McDowell St.; 3 stories; brick; 30 rooms.

N. C., Charlotte—W. H. Bethea and C. H. Gover will erect \$18,000 building, on Queens Rd., Myers Park; 54x60 ft.; 2 stories; brick veneer; slate roof; steam heat; garage space; servants' quarters in rear; plans and construction by Mr. Bethea.

Okla., Pawhuska—Mrs. J. R. Drake will erect brick and tile building; marble trim.

Okla., Tulsa—J. D. Simmons will erect \$30,000 building, 1438 S. Quaker St., Broadmoor Heights addition; 2 stories; stucco; 8 apartments.

Tex., Dallas—Mrs. Lucy Cates will erect \$19,750 building, 100-102 N. Edgefield Ave.; 2 stories.

Tex., El Paso—John Wright will erect \$30,000 building on Upson Ave. adjoining Scottish Rite Cathedral; 18 bachelor apartments.

Tex., Houston—Oliver & Co. will erect 2 duplex apartments, McIlhenny Ave. near Baldwin St.; \$28,000.

W. Va., Charleston—Mrs. M. A. Blackburn will erect \$20,000 building, Quarrier St., near Greenbrier St.; 2 stories; brick and tile; 4 apartments.

Association and Fraternal.

Fla., Daytona—Halifax Lodge No. 81, A. F. & A. M., Addison O'Neil, Chrmn. Bldg. Comm., will erect \$50,000 temple on Orange Ave.; 60 x 70 ft.; brick and hollow tile; terra cotta trim; Johns-Mansville built-up roof; cement and wood floors; steel sash and trim; hot water heat; Otis elevator; Jacob Espedahl, Archt.; bids opened Aug. 1. (Lately noted.)

Fla., Leesburg—Leesburg Lodge No. 58, A. F. & A. M., Dr. C. B. Gamble, Chrmn. Bldg. Comm., will erect \$60,000 temple on Main St.; 55 x 102 ft.; 3 stories; brick and tile; asphalt roof; hardwood floors; steam heat, \$3500; Alan J. MacDonald, Archt., Eustis; bids opened Sept. 15. (Lately noted.)

Fla., Lynn Haven—Acme Lodge No. 222, A. F. & A. M., will erect 3 story building; roof garden; J. W. Crome & Sons, Archts., Louisville, Ky.

Fla., Wauchula—Ancient Free and Accepted Masons will erect \$50,000 building; 60x100 ft.; 3 stories; 2 stores on first floor, 22 offices on second and lodge rooms on third; M. Leo Elliott, Archt., Tampa.

Ga., Newnan—Coweta Lodge No. 60, A. F. & A. M., will erect temple; cost, including site, \$25,000; 2 stories and basement; 40 x 100 ft.

Ga., Savannah—Young Women's Christian Assn. will erect building; Henrik Wallin, Architect.

Ga., Statesboro—Knights of Pythias will erect building, Main St.; 2 or 3 stories; 30x100 ft.; marble front; brick; stores on first floor.

Mo., Columbia—Odd Fellows plan hall.

Tenn., Newport—Junior Order United American Mechanics plans \$50,000 lodge building; offices.

Tex., El Paso—Knights of Columbus will erect \$100,000 building; 3 stories; gymnasium.

BUILDING NEWS

BUILDINGS PROPOSED

Apartment Houses.

D. C., Washington—Wm. A. Hill will erect building at 1474 Chapin St.; 12 apartments.

Ga., Macon—Mrs. John M. Barnes will convert 356 New St. into apartment house; \$10,000; 8 apartments; Currian R. Ellis, Architect.

Fla., Miami—E. S. Moore, Danville, Ill., and R. A. Gabbert, Mattoon, Ill., will erect \$24,900 building in 1100 block Euclid Ave., Miami Beach; concrete and hollow tile; 105 x 43 ft.; Spanish type; 9-car garage of concrete and hollow tile; Geo. W. Dickens & C. S. Knapp, Contrs., Miami Beach.

La., Lake Charles—Gayle Apartments, Inc., Edwin F. Gayle, Prest., will erect \$60,000 building; 3 stories; 36x120 ft.; pressed brick, hollow tile and concrete; tile roof; concrete, hardwood and tile floors; steel sash and trim; ventilators; hot water or steam heat; electric lights; Phillips & McCook, Archts.; bids opened Oct. 15. Address owner. (Lately noted.)

La., New Orleans—H. G. Markel, 224 Whitney Central Bldg., prepared plans for \$16,000 twin apartment house, Freret and Octavia Sts.; 1 story and basement; frame; stucco and metal lath; 56x86 ft.; tile roof; linoleum porches; warm air heat.

N. C., Asheville—Merriman Ave. Apartment House Co., Inc., C. N. Maline, Prest., will erect \$60,000 building; fireproof; 15 apartments; Ronald Green, Archt., Oates, Bldg.

N. C., Asheville—E. W. Grove Investments,

W. R. Campbell, Mgr., will not erect building on Kimberly Road as lately reported.

Md., Baltimore—Jesse Rosenfeld, 2210 Brookfield Ave., and others incorporated company to erect Oakford Park Apartments, Oakford Rd. near Leona Ave.; \$500,000; 3 stories; brick; 72 apartments; separate entrances for every 6 apartments; radio receiving set; Otto G. Simonson, Inc., Archts., Maryland Casualty Tower Bldg.

Mo., Kansas City—C. O. Jones, 308 Commerce Bldg., will erect two \$25,000 buildings, 3702-04 and 3706-08 Wyoming St.; 3 stories; 35x69 ft.; brick and frame; composition roofs; oak floors; Kewanee system of heat; N. E. Peters, Archt., Shawnee, Kan.; owner builds. (Lately noted.)

Mo., St. Louis—Frank A. Hueser, 4534 Fair Ave., is preparing plans for \$12,000 flat building, Clarence and Florissant Sts.; 2 stories; 27x52 ft.; brick; stone trim.

Mo., St. Louis—Mrs. M. Jansky will erect 3 double flat buildings, Allen near 18th St.; \$15,000 each; 2 stories; 37x62 ft.; brick; Leo K. Milberger, Archt., 5212 Murdock Ave.

Mo., St. Louis—Jas. M. Marau, 5239 Delmar Ave., will erect two \$20,000 buildings, 6238 Cabanne St.; 3 stories; 40x55 ft.; brick; owner builds.

Mo., St. Louis—Rhodes & Cook, 6240 Delmar St., will erect two \$28,000 buildings, 6600 Washington Ave.; 3 stories and basement; 36x59 ft.; brick; 6 apartments each; day labor.

Mo., St. Louis—R. C. Wageley, 6109 Easton

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swimming pool, bowling alleys, etc.; constructed to carry additional stories. Address Dr. Paul Gallagher, Chrmn. Gen. Comm.

W. Va., Elkins—Odd Fellows, J. D. Silcott, Sec. of Board, will erect addition to home; T. T. Sansbury, Archt., Parkersburg; bids opened July 21.

Bank and Office.

Ala., Birmingham—Dr. W. C. Gewin will remodel building at 108-10 N. 21st St. for Federated Bank & Trust Co. and O'Neal Lime Works, Inc.; \$50,000.

Ark., Magnolia—C. W. McKay will erect 2-story building on E. Main St.; steam heat; stores on first floor.

Fla., Orlando—Orlando Bank & Trust Co. will erect 9-story building on Orange Ave.

Mo., Cameron—State Farmers Mutual Tornado Ins. Assn., Ben H. Lammers, Pres., Lockwood, will erect 1-story addition.

La., Baton Rouge—Judge H. F. Brunot and others will erect 2-story store and office building, 3rd and Florida Sts.; steel and concrete; plans call for 3 additional stories later; Favrot & Livaudais, Archts., Hibernia Bank Bldg.; ready for bids about Aug. 15.

La., Baton Rouge—Louisiana National Bank will erect 10-story building, 3rd and Convention Sts.; steel and concrete; \$750,000; Sanguinet & Staats, Dallas, Tex., and Edw. F. Neild, Shreveport, La., Asso. Archts.

Md., Baltimore—National Bank of Baltimore, T. Rowland Thomas, Pres., will raise two buildings at St. Paul and Baltimore Sts. and erect \$450,000 structure; 80x102 ft.; 4 stories; granite; slate and asbestos roof; elevators; vaults; etc.; steam heat; bids until Aug. 1 (extended date); Theo. Wells Pietsch, Archt., American Bldg.; following contractors estimating: Fisher & Carozza Bros. Co., Continental Bldg.; Consolidated Engineering Co., Calvert Bldg.; Piel Construction Co., Edmondson and Whitmore Aves.; J. L. Robinson Construction Co., Carrollton and Lafayette Aves.; Cogswell-Koether Co., 406 Park Ave.; H. D. Watts Co., Garrett Bldg.; Price Construction Co., Maryland Trust Bldg.; Frairie Bros. & Haigley, 19 W. Franklin St.; M. A. Long Co., Munsey Bldg.; Morrow Bros., Fidelity Bldg.; West Constr. Co., American Bldg.; Chas. L. Stockhausen Co., Marine Bank Bldg.; P. C. Street, 3408 Norwood Ave.; B. F. Bennett Bldg. Co., 123 S. Howard St.; David M. Andrew Co., Sisson and 26th Sts.; all Baltimore; Fred T. Ley & Co., 19 W. 44th St., New York. (Lately noted.)

Mo., St. Louis—Oleada Realty Co., Chas. H. Thimmig, Pres.-Treas., 1662 S. Jefferson Ave., will erect \$1,000,000 office and theatre building; Preston J. Bradshaw, Archt.; bids opened about Aug. 1.

Mo., St. Louis—St. Louis Medical Society, 3525 Pine St., Jno. C. Morfit, Chrmn. Bldg. Comm., plans \$150,000 building, Lindell Blvd., west of Moolah Temple; Albert B. Groves, Archt., Stock Exchange Bldg. (Lately noted.)

Okla., Tulsa—Exchange National Bank will erect 12-story annex at Third and Boston Sts.; about \$1,000,000; 90x75 ft.; steel, concrete and brick; asphalt roof; hardwood and marble floors; hollow fireproof and interior tile; ornamental terra cotta; metal doors; wire glass; steel sash and trim. Address Weary & Alford Co., Archt., 1923 Calumet Ave., Chicago.

Va., Norfolk—United Owners Realty Co., Goldsborough Serpell, Pres., will erect 7-story annex to Law Bldg.; elevators; Peebles & Ferguson, Archts.; bids opened July 28.

W. Va., Huntington—Abe Solof and D. C.

Schonthal plan professional building; \$200,000; also \$75,000 structure; concrete and steel; fireproof; contracts let; also contemplate 2 additional buildings, Fourth Ave.; \$200,000.

Churches.

Fla., Tampa—House of Prayer Episcopal Church, Dr. W. C. Richardson, Rector, will erect \$10,000 building, Central and Michigan Aves.; 78x50 ft. and 20x40 ft.; monolithic concrete; composition shingle roof; cement floors; gas heat; L. A. Fort, Archt., Penn. Telephone Bldg. (Previously noted.)

Ga., Augusta—Reid Memorial Church will erect \$25,000 Sunday school addition; auditorium to seat 500; brick and frame; tin roof; wood floors; hot air heat; Willis Irvin, Archt., Lamar Bldg.; bids opened July 25.

Md., Baltimore—Highland Ave. M. E. Church, Highland Ave. and Pratt St., will alter building and erect addition; \$40,000; 3 stories; 92x55 ft.; stucco; Fred'k E. Beall, Archt., 306 St. Paul St.

Md., Hyattsville—Methodist Episcopal Church, South, plans building at Marion St. and Maryland Ave. Address The Pastor.

Mo., Kirksville—First Presbyterian Church, Rev. R. A. Waggoner, Pastor, will erect \$55,000 building; Irwin Dunbar, Archt.

Mo., Springfield—North Side Presbyterian Church plans \$15,000 church. Address The Pastor.

Mo., Springfield—Christ Episcopal Church, Harry Cooper, Chrmn. Bldg. Comm., \$50,000 building, Kimbrough Ave.; native limestone; cutstone trim; slate roof; parish house; Hoener Baum & Froese, Archts., St. Louis; bids opened July 25.

N. C., Kerner'sville—Methodist Episcopal Church, Rev. E. O. Cole, Pastor, will erect building; plans by architect of Church Board of Extension, Nashville.

N. C., Tarboro—Hobart B. Upjohn, Archt., 5952 Grand Central Terminal, New York, receives bids until Aug. 7 to erect Cheshire Memorial Parish House, Calvary Church, Rev. R. E. Brown, Pastor; \$50,000; brick; stone trim; slate roof; hardwood floors; ornamental terra cotta; low pressure steam heat; rolling partitions; ventilators; plans and specifications from Archt.

Okla., Duncan—Baptist Church, Rev. Elmer Ridgeway, Pastor, will remodel church and erect annex; \$25,000; bids opened July 25.

S. C., Greenwood—South Main St. Baptist Church will erect Sunday school addition; J. C. Hemphill, Archt.

Tenn., Chattanooga—Methodist Church, South, Rev. Mr. Eastwood, Pastor, will erect \$30,000 to \$40,000 church, Dodds Ave. and E. 16th St., Ridgedale.

Tex., Dallas—Oak Lawn Methodist Church, Dr. Jos. W. Fort, Pastor, will erect 3 or 4-story Sunday school annex, Cedar Springs Rd. and Oak Lawn Ave.; \$150,000.

Tex., Marlin—Baptist Church, C. T. Curry, Secretary Building Committee, receives bids until Aug. 15 to erect \$20,000 building, including plumbing, heating and electric wiring; 60x85 ft.; 2 stories and basement; brick and wood; asbestos shingle roof; cement basement; pine floors; return line steam heat; conduit system electric wiring; more construction later; plans and specifications from R. H. Hunt Co., Archt., S. W. Life Bldg., Dallas. (Lately noted.)

Tex., Port Arthur—Trinity M. E. Church, South, will erect \$80,000 building; auditorium with balcony; 57x80 ft.; 3-story Sunday school building, 37x130 ft.; concrete frame; steel trusses; tile roofing; concrete, hardwood and sanitary floors; vapor steam heat (oil

burning), \$6000 to \$7000; steel sash and trim; folding partitions; Paul G. Silber & Co., Archts., San Antonio; bids opened Aug. 1. Address Archt., Plaza Hotel Port Arthur.

Tex., San Antonio—Hackberry Street Methodist Church will erect \$28,000 building, Hackberry and Montana Sts.; semi-fireproof; hollow tile and stucco; asbestos roof; metal ceilings; rolling partitions; Smith & Kelly, Archts., will let sub-contracts. (Lately noted.)

Va., Roanoke—Church of the Brethren will erect \$75,000 building, 400 block Church Ave.; Greek Ionic style; 67 x 140 ft.; stone and pressed brick; tile roof; 2 stories and basement; sub-basement in rear, 38 x 67 ft.; marble baptismal pool, 6 x 8 ft.; Eubank & Caldwell, Archts.

City and County.

Fla., St. Petersburg—Hospital—City plans vote on \$1,052,000 bonds, including \$150,000 for hospital addition. Address City Commr.

Mo., Carrollton—Memorial Building—County will erect \$20,000 memorial building; post office room, auditorium to seat 500; Foster Scott, Archt.

N. C., Rutherfordton—Jail—County will erect jail; 3 stories; electric lights; steam heat; showers; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C.; ready for bids in September.

Va., Norfolk—Jail—City, Chas. E. Ashburner, Mgr., will alter cells in city jails; bids opened July 26.

W. Va., Morgantown—City defeated \$750,000 bonds issue for municipal hall and sewer improvement.

Courthouses.

W. Va.—Wayne—Building Committee receives bids until Aug. 3 to erect courthouse; plans and specifications from Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C.

Dwellings.

D. C., Washington—Morris Cafritz Co., Inc., 913-15th St., will erect brick dwelling; 45x90 ft.; slag roof; concrete, oak and pine floors; steel sash and trim; hot water heat; electric lights; Harvey Warwick, Archt., 1108-16th St.; owner builds.

Fla., St. Petersburg—George Decker will erect \$10,000 dwelling; 8 rooms.

Ga., Atlanta—F. C. Disbro will erect two \$5,000 dwellings, 121 Elmwood Dr., frame; 91 Elmwood Dr., brick veneer; both 1-story.

Ga., Columbus—M. L. Wade, Smith's Station, will erect 12 dwellings, North Highlands; \$11,000.

Ky., Louisville—Theresa Moellman will erect 7 dwellings, 4620-32 Brewster St.; \$2500 each.

Ky., Louisville—C. J. Redmon will erect dwelling, Douglass Blvd.

La., Lake Charles—Favrot & Livaudais, Archts., Hibernia Bldg., New Orleans, receive bids until Aug. 3 for construction of 2-story dwelling for W. K. Gray; brick veneer; 40x60 ft.; slate roof; pine and oak floors.

La., New Orleans—L. Avonson, 415 Carondelet St., will erect 3 double cottages, Calhoun, Burke and Claiborne Sts.; \$10,500; owner builds.

Md., Baltimore—Ashburton Realty Co., Theo. Messerschmidt, Pres., Fidelity Bldg., will erect 2 bungalows, Bucks Ave. near Cadillac Ave.; about \$10,000; 1½ stories; frame.

Md., Baltimore—Jos. Schwaber, 809 Pennsylvania Ave., will erect \$12,000 dwelling, 1601-03 Pennsylvania Ave.; 3 stories; brick; stores on first floor.

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Md., Baltimore—John L. Elser, The Roslyn, Walbrook, will erect \$10,000 dwelling, Nottingham Rd. and Edmondson Ave.; 2 stories; 32x40 ft.; brick.

Md., Baltimore—Rudolph Heinekamp, Prest., La Porte Heinekamp Motor Co., will erect \$10,000 cottage, Englewood Rd. near Falls Rd.; 2 stories; hollow tile and stucco.

Md., Baltimore—Loyola Construction Co. will erect 63 dwellings, 2601-39 and 2600-44 Park Heights Ave., and 2601-43 Loyola Heights Ave.; about \$180,000; 2 stories; brick.

Md., Baltimore—Jos. F. Moreland, Harford Rd. and Gibbons Ave., purchased 205-acre tract, Harford and Putty Hill Aves., and will develop; erect 50 bungalows in groups of five; about \$3500 each; construct roads, etc.

Md., Baltimore—Northwestern Real Estate Co., Geo. R. Morris, Prest., Morris Bldg., will erect \$12,000 cottage and garage, 3402 Hilton Rd.; 32x47 ft. and 18x20 ft.; 2 stories; frame.

Md., Hyattsville—J. Moses Edlavitch purchased Addison M. Smith property in North Hyattsville and will erect number of dwellings.

Mo., Kansas City—Fletcher Cowherd, Jr., will erect four \$4000 dwellings, 5310-11-12-15 Harrison St.

Mo., Kansas City—Harry Stennings, will erect 3 dwellings, 5542 Holmes St., 5806 Woodland Ave. and 5800 Wabash Ave.; \$11,000.

Mo., Kansas City—A. D. Snyder will erect dwelling, 1225 Huntington Rd.; brick and hollow tile; tile roof.

Mo., Kansas City—M. P. Connor will erect \$25,000 dwelling, 1221 Huntington Rd.; hollow tile; stone trim; tile roof.

Mo., Kansas City—D. S. Wyrick will erect English type dwelling, Pembroke Lane, Mission Hills.

N. C., Cherryville—C. A. Rudisill, Carlton Yarn Mills, will erect dwelling.

N. C., Southern Pines—Judge W. A. Way, Pinehurst, will erect \$10,000 dwelling at Knollwood; 6 rooms; brick; slate roof; oak, pine and gum floors; interior tile; hot air heat; electric lights; H. J. Betterley, Contr.; also contemplates more dwellings. (See Mch. Wanted—Slate.)

N. C., Winston-Salem—W. P. Hill will erect 2-story brick dwelling, Buena Vista; C. Gilbert Humphreys, Archt.

N. C., Winston-Salem—W. H. Turner will erect 2-story brick dwelling, Holly Ave.; C. Gilbert Humphreys, Archt.

S. C., Florence—Dr. Jno. M. Barnwell will erect dwelling; 2 stories; stucco.

Tenn., Clarksville—Goedberg & Helmanson will erect 3 dwellings; 2 stories and basement; J. H. Ellarson, Archt., Commerce St.

Tenn., Nashville—Tom Bagley will erect \$13,700 dwelling, 18th Ave. near Belcourt; 2 stories; brick and stucco; 12 rooms.

Va., Mount Ida—C. E. Davison will erect \$12,000 dwelling; Milburn, Helster & Co., Archts., Union Savings Bank Bldg., Washington, D. C. and Durham, N. C.

Va., Richmond—A. J. Daugherty is interested in company to erect dwellings on Nine-Mile Rd., Windsor Courts; concrete; fireproof.

Va., Richmond—George Mayo will erect 3 dwellings in addition to 8 under construction in Ladies' Mile Rd. and Noble Ave., North Richmond; \$8000 to \$11,000 each.

W. Va., Clarksburg—H. F. Modlin, 508 Stanley Ave., will erect \$13,000 dwelling on Main St., Goff Plaza.

Government and State.

Ky., Louisville—P. O. Sub-station—Consolidated Realty Co., C. C. Heatt, Prest., will erect parcel post sub-station, Tenth and Main Sts.; \$240,000; 105x210 ft.; 2 stories and basement; constructed for additional story later; 58,850 sq. ft. floor space.

Okla., McAlester—Consistory—W. J. Kindrick, Secy. Bldg. Comm., receives bids until Aug. 4 to erect first story of west extension to Indian consistory; plans and specifications from Thompson & Harding, Archts., 504 Southern Trust Bldg., Little Rock, Ark.; separate bids for plumbing, heating and electric wiring.

W. Va., Charleston—Capitol—State, H. G. Young, Sec. of Bldg. Comsn., will erect \$6,000,000 Capitol; tentative plans provide stone construction; Renaissance style; dome; two 4-story wings for offices; 2 main fronts; Cass Gilbert, Archt., 244 Madison Ave., New York. (Previously noted.)

Hospitals, Sanitariums, Etc.

Ark., Little Rock—City, Mayor Brickhouse, opened bids to complete city hospital; John P. Almand, Archt.; Johnson & Dickinson Co., low bidder at \$155,000. (Lately noted.)

La., Baton Rouge—Franciscan Sisters will erect \$175,000 building for Our Lady of the Lake Sanatorium; 4 stories; brick; composition roof; low pressure steam heat; electric lights; electric automatic elevators; Wm. T. Nolan, Archt., Canal Commercial Bldg.; bids opened about Sept. 1. (Lately noted.)

Miss., Meridian—State Bond Improvement Comsn., Theo. C. Link, Supervising Archt., Box 636, Jackson, receives bids until Aug. 3 to erect building at East Mississippi Insane Hospital; plans and specifications from Mr. Link.

N. C., Shelby—No. 6 township, will erect \$100,000 hospital; Louis H. Asbury, Archt., Charlotte; bids until July 27 for erection complete; plumbing; heating; electric wiring and fixtures. Address A. W. McMurry, Sec. Shelby Hospital. (Lately noted.)

S. C., Spartanburg—Dr. N. T. Clark will erect \$13,000 eye, ear, nose and throat clinic; 52x50 ft.; 2 stories; wood and brick; gravel roof; hardwood, pine and wood block floors; steam heat, \$1500; electric lights; S. P. Tinsley, Archt.

Tenn., Murfreesboro—City votes Aug. 3 on \$343,000 bond issue, including \$75,000 for hospital. Address The Mayor.

Tex., Corpus Christi—Sisters of Charity of Incarnate Word, Mother Mary John, Superiores, San Antonio, will erect Spohn Sanatorium, Booty Ave. and 3rd St.; \$125,000 to \$135,000; 3 stories; reinforced concrete and brick; Atee B. Ayres, Archt., San Antonio.

Tex., Houston—Texas Methodist Conference will erect hospital, Austin St. and Rosalie Ave., Dr. R. W. Adams, Mgr.; 5-st unit \$150,000 equipped; 38x104 ft.; 5 stories; reinforced concrete and brick; pine and composition floors; metal lath and plaster partitions; ultimate cost of buildings \$600,000; Street & Bailey, Archts.

Va., Norfolk—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids until July 31 to erect wing to main building U. S. Public Service Hospital Tanner's Creek; \$85,500; 40x200 ft.; fireproof; composition roof; hollow fireproof and interior tile; metal doors; wire glass; concrete floors; ventilators; steel sash and trim; heating, \$15,000; lighting, \$10,000; elevators, \$5000; plans and specifications from Neal A. Melick, Supt. of Construction at site or from office Supervising Archt. (Lately noted.)

Hotels.

Fla., St. Cloud—H. W. Bradshaw, St. Petersburg, and associates will erect \$100,000 hotel.

Fla., St. Petersburg—J. N. Brown will erect \$150,000 hotel and store, 5th St. and 1st Ave.; 65x100 ft.; 7 stories and basement; 108 rooms with bath; 4 stories; fireproof; steel, concrete, brick, hollow tile and ornamental terra cotta; concrete roof; ceramic tile, wood and concrete floors; metal ceilings and doors; wire glass; steel sash and trim; ventilators; vapor heat; electric lights; 2 passenger elevators; H. L. Wendell, Archt., La Plaza Theater Bldg.; bids opened July 25.

Ga., Augusta—H. C. Boardman's Sons; \$125,000 hotel; 5 stories; 65x132 ft.; 100 rooms; reinforced concrete; Barrett specification roof; one freight and one passenger elevator; contract about Aug. 1. Address Willis Irvin, Archt., Lamar Bldg. (Lately noted.)

Ga., Macon—J. Clay Murphey will erect \$75,000 hotel; brick and frame; built-up roof; pine floors; steam heat; electric lights; Hupp & Shelverton, Archts.; bids opened July 20.

La., Monroe—Monroe Hotel will receive bids at office, Wm. Deane and C. W. King, Asso. Archts., 7831 Jeanette St., to erect 3-story addition to and alter hotel; \$100,000; 40x140 ft.; brick; plans and specifications from architects.

Md., Baltimore—Travelers' Hotel Corp., Israel Silberstein, Prest., Equitable Bldg., plans \$1,000,000 hotel, Paco and Fayette Sts.; 14 stories; 48x144 ft.; E. H. C. Browne, Archt., care Mr. Silberstein.

Mo., Kansas City—S. J. Stats and associates will erect hotel, 12th and Wyandotte Sts.

Mo., Kirksville—Chas. V. Miller will erect 4-story hotel; brick, concrete and steel; 84 rooms.

Tenn., Chattanooga—J. B. Pound will expend \$10,000 to remodel Eastern Hotel; install elevators, finish lobby in tile with marble walls.

Tex., Laredo—Laredo Hotel Co. will erect \$340,000 building, Hidalgo St. and San Bernardo Ave.; 6 stories and basement, with roof garden; 125 rooms with bath, auditorium, reception hall, dance hall, etc.; brick, stone and stucco.

Miscellaneous.

Ky., Chinnville—Grandstand, etc.—Tri-State Fair and Racing Assn., Thos. B. Cromwell, Secy., Phoenix Hotel, Lexington, invites bids to erect steel grandstand; frame stable and barns; frame cottages; close board and picket fences; bored wells and water system; roadways with hard surface and brick and concrete walks. (Lately noted.)

La., Pilot Town—Clubhouse—Associated Branch Pilots, Capt. Steve Cusina and others, will erect \$30,000 building; 2 stories.

Mo., Chillicothe—Home—State Industrial Home for Girls will erect 2-story school and 1-story laundry; Lehr Constr. Co., St. Joseph, is lowest bidder at \$132,573.

N. C., Asheville—Clubhouse—Asheville Club for Women, Inc., Mrs. J. M. Gudger, Jr., Prest., will erect clubhouse.

N. C., Swannanoa—Orphanage—Mountain School, Rev. R. P. Smith, D. D., Supt., will erect \$65,000 building; fireproof; Smith & Carrier, Archts., Asheville.

Tenn., Nashville—Settlement House—McNelly Day Home, Mrs. J. F. Shearon, Prest., Board of Trustees, will erect \$25,000 building, Second and Marks Sts.; auditorium, play

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room, club rooms, class rooms, community laundry and gymnasium.

Tex., San Antonio—Home—Protestant Home for Aged; \$10,000 building; R. F. Neuman, Archt.

Tex., Valentine—Clubhouse—Galveston, Harrisburg & San Antonio Ry., El Paso, will erect \$10,590 clubhouse.

Va., Richmond—Home—Carneal & Johnson prepared plans for \$50,000 home for girls in Highland Park; 2 stories; brick.

Schools.

Ala., Birmingham—Birmingham-Southern College Trustees will erect \$50,000 library; 100x60 ft.; brick and hollow fireproof tile; hardwood floors. Address Miller & Martin, Archts.

Ark., Clarksville—College of Ozarks, Dr. H. S. Lysle, Prest., will erect \$75,000 administration and gymnasium building; 90x100 ft.; brick; marble trim; Johns-Manville composition roof; pine floors; steam heat; electric lights. Address A. O. Clarke, Archt., Rogers; bids opened July 25. (Lately noted.)

Ark., Fayetteville—Board of Education will erect word school; \$45,000 bonds available.

Ark., Siloam Springs—Jno. E. Brown College will erect \$60,000 dormitory; 185x94 ft.; brick; tile roof; electric lights; Jas. A. Hooser, Archt., Modesto, Cal.; owner builds. (Lately noted.)

Fla., Plant City—Hillsborough County Board of Public Instruction, J. E. Knight, Secy., Tampa, plans school; election Aug. 22 on \$60,000 bonds. (Lately noted.)

Fla., Tampa—Hillsborough County Board of Public Instruction, J. E. Knight, Secy., receives bids until July 31 to erect addition to and alter various schools in Dist. No. 4; plans and specifications at office M. Leo Elliott, Archt.

Ga., Athens—Clark County voted \$50,000 bonds toward erection of \$100,000 dormitory at University of Georgia; Tate Wright, Clk. County Commrs. (Lately noted.)

Ky., Louisville—Board of Education receives bids until Aug. 4 to erect addition to Louisville Vocational School, 528-46 S. First St.; \$50,000; 2 stories and basement; 26x176 ft.; stone and brick; D. X. Murphy & Bro., Archts.

Ky., Owensboro—Board of Education will erect \$250,000 high school; 235x159 ft.; semi-fireproof; composition roof; hardwood floors; steam heat; electric lights; ready for bids about July 31; A. F. Hussander, Archt., 25 N. Dearborn St., Chicago. (Lately noted.)

La., Arcadia—Bienville Parish School Board will receive bids until Aug. 15 to erect high school; \$60,000; brick; slate roof; wood floors; metal ceilings; ventilators; steam heat; J. W. Smith, Archt., Monroe. (Lately noted.)

La., Baton Rouge—East Baton Rouge Parish School Board, R. C. Gordon, Prest., will erect high school on site of present Istrouma Elementary School, elementary schools in North Highland Estates, Fairfields and south of Weller Ave., negro school north of Weller Ave.; \$50,000 tax voted. (Lately noted.)

La., Hammond—School Board plans to erect building; considering bond election.

La., Liberty Hill—Bienville Parish School Board, Arcadia, will receive bids until Aug. 1 to erect Central High School in Dist. No. 16.

La., New Orleans—Incarnate Word Parish, Rev. F. Bosch, Pastor, will erect 1-story school and 2-story rectory, Apple and Dante Sts.; frame; Burke & Duffrehou, Archts., Balter Bldg.

La., New Orleans—Jefferson Parish School; plans and specifications at office Lock-

Board, Geo. A. Cox, Pres., will erect schools at Kenner, Metairie Ridge and at point between Shrewsbury and Harahan; \$230,000; Wm. T. Nolan, Archt., will supervise construction; also erect buildings at Westwego and Gretna; \$142,000; Emile Weil, Archt., New Orleans and Metairie Ridge, will have charge of work.

Md., Baltimore—Board of Awards, Mayor Wm. F. Broening, Prest., will erect portable buildings as follows: Eight single room buildings, School No. 47, Eastern and Linwood Aves.; two single room buildings at School No. 40, Alsquith and Orleans Sts., School No. 70, Warren Ave. and William St., School No. 78, Harlem Ave. and Monroe St., School No. 63, Rosedale St. and Westwood Ave. and Monroe Street, School 24, Fait Avenue; double room buildings at Colored High School, Pennsylvania Avenue and Dolphin St., School No. 13, Patterson Park Ave. and Washington St., and Curtis Bay School; two double room buildings at Curtis Bay Annex School; three room building at Fairfield School, Wagner's Point; total \$87,000; bids opened Aug. 2; Jno. H. Roche, Secy., School Board, Madison and Lafayette Aves.

Miss., Gulfport—County Board of Education called election July 31 in Sellers Consolidated Line School Dist. on \$10,000 bonds to erect school.

Miss., Magnolia—School Board plans building; \$10,000 bonds voted.

Miss., Woolmarket (R. D. from Biloxi)—Consolidated School Dist. Trustees will erect building.

Mo., Fawcett—Trustees, Consolidated School No. 3 will erect addition to building; brick; \$35,000 bonds available. (Lately noted.)

Mo., Jefferson City—Lincoln Univ. Board of Curators, C. H. Kirschner, Prest., receives bids until July 31 to erect dormitory; separate bids on electric wiring and heating; also on alterations to present buildings; dormitory, 148x90 ft.; reinforced concrete and brick; slate roof; hollow fireproof tile; hardwood and concrete floors; metal doors; radiators, piping from central plant; hand-power elevator; plans and specifications at office E. C. Janssen, Archt., 1301 Chemical Bldg., St. Louis. (Lately noted.)

Mo., Kansas City—Chas. E. Phillips and E. F. Geraughty will erect \$250,000 hotel, 9th and Holmes Sts.; 50 apartments and 35 individual rooms; brick; Miss N. F. Peters, Archt.

Mo., Mansfield—School Board will erect building to replace structure previously noted burned; \$11,000 bonds voted.

Mo., St. Charles—School Board will erect addition to Franklin School; bids opened July 25.

N. C., Troy—Montgomery County Board of Education, J. S. Edwards, Supt., Troy, will erect one 8-room, one 10-room and three 6-room schools; brick; J. J. Blair, Director of school house planing, Raleigh.

N. C., Yadkinville—School Board will erect \$30,000 brick building.

Okla., Calera—Board of Education will erect \$30,000 school; 2 stories and basement; brick; stone trim; Jewell Hicks, Archt., 19½ W. Main St., Oklahoma City.

Okla., Sapulpa—Board of Education will erect \$175,000 junior high school; Jewell Hicks, Archt., 19½ W. Main St., Oklahoma City. (Previously noted.)

S. C., Charleston—The Citadel, Jno. P. Thomas, Chrmn., Bldg. Comm., 27 Cumberland St., receives bids until July 31 to erect gymnasium building; 2 stories; brick and

wood, Greene & Co., Archts., The Citadel, Marion Square.

S. C., Columbia—School Commrs., A. C. Moore, Chrmn., will erect \$65,000 high school addition; 40x180 ft.; fireproof; tin roof; rift pine and tile floors; steam heat; Jas. B. Urquhart, Archt.; bids opened July 20.

S. C., Rodman—School Trustees, Dist. No. 20 plans to erect building; election July 24 on \$15,000 bonds.

Tenn., McKenzie—Board of Education plans high school; election on \$50,000 bonds.

Tenn., Memphis—City Board of Education will erect auditorium to Southside High School; seating capacity 1200; Pfeil & Awsumb, Archts.; also expend \$13,440 to repair Merrill School.

Tex., Austin—Walther League plans \$30,000 dormitory at Univ. of Texas. Address Rev. A. E. Moebus, La Grange, Tex.

Tex., Brady—Brady School Dist. Trustees will erect building; \$40,000 bonds voted. (Lately noted.)

Tex., Clifton—Clifton College will erect administration building; \$45,000; 101x69 ft.; 3 stories; brick and concrete; built-up asphalt roof; wood floors over concrete; stone trim; hot air heat; P. G. Silber & Co., Archt., Bedell Bldg., San Antonio; bids opened Aug. 7. (Lately noted.)

Tex., Hamlin—Hamlin Independent School Dist. Trustees will erect annex and repair building; \$15,000 to \$18,000; Geo. F. Campbell, Archt., Abilene.

Tex., Hillsboro—School Board, Jno G. Read, Prest., will receive bids until July 31 to erect 2-story and basement brick building; separate bids for heating; plans and specifications at office J. O. Galbraith, Archt. (Lately noted.)

Tex., Mount Pleasant—School District Trustees will erect building.

Tex., Paris—Lamar County Board of Education will erect 8 rural schools; \$2000 to \$5000 each.

Tex., Wortham—Board of Education will erect high school and repair grammar school; \$50,000 bonds voted.

Va., Norfolk—City School Board, E. L. Myers, Chrmn., receives bids Aug. 3 to erect addition to J. E. B. Stuart School; plans and specifications at office Peebles & Ferguson, Archts., Law Bldg. (Lately noted.)

Va., Richmond—St. Catherine's School for Girls, Rev. E. L. Woodward, Dean, Dominion Trust Bldg., will erect \$75,000 building, Westhampton; fireproof; brick; concrete and wood floors; steel columns; slate roof; low pressure steam heat; 3 stories; 88x40 ft.; Hobart Upjohn, Archt., Grand Central Terminal, New York.

W. Va., Harrisville—Harrisville Independent Dist. School Trustees will erect high school; fireproof; \$42,000 bonds available; L. J. Dean, Archt., Huntington. (Lately noted.)

W. Va., Wheeling—Board of Education will erect \$55,000 addition to Lincoln High School; Fred F. Paris, Archt.

Stores.

Ark., Hot Springs—Dave Lockwood, Central Ave and Chapel St.; remodel store.

Fla., Lakeland—S. T. Daugherty will erect \$35,000 store and office building; 100x80 ft.; brick; built-up roof; cement and wood floors; Wm. J. Heim, Archt., Avon Park. (Lately noted.)

Fla., Sebring—P. L. Vincent will erect 2-story hotel and store; \$15,000; 40x80 ft.; brick and tile; composition roof; cement and

wood floors; Wm. J. Heim, Archt., Avon Park; owner builds. (Lately noted.)

Fla., Tallahassee—W. E. Hodges will erect several buildings on Monroe St.

Fla., Ybor City—G. C. Spicola & Sons will erect \$12,000 store; 35x95 ft.; 1-story; brick; tile floors; composition roof; M. Leo Elliott, Tampa, Archt.; ready for bids.

Ga., Augusta—C. H. Schneider & Bro. will erect department store.

Ga., Columbus—Averett & Jones will erect \$10,000 store, Front St.; 42x120 ft.; brick.

Ky., Ashland—Harry Haskell will erect store and offices, Winchester Ave. and 15th St.; 2 or 3 stories; brick.

La., New Orleans—F. Loyacano will erect \$11,600 store and residence, Thalia and Coliseum Sts.; owner builds.

Md., Baltimore—Jno. Serio, 2901 Riggs Ave.; \$20,000 store and apartments; 2 stories; 40x68 ft.; brick; slag roof; pine floors; hot water heat; electric lights; E. C. Lawrence, Archt., 2407 Garrison Ave.; bids opened Aug. 1. Address owner.

Md., Baltimore—Jos. Schwaber, 809 Pennsylvania Ave., will erect 3-story store and dwellings, 1601-03 Pennsylvania Ave.; \$10,000; 44.9x100 ft.

Mo., Kansas City—B. J. Bumgardner will expend \$18,000 to remodel building, 1408-10 St. Louis Ave.

Mo., Kansas City—R. A. Osletog will erect \$15,000 building, 5030 Summitt St.

Mo., Kansas City—Genevieve Parlin will erect \$17,000 building, 3413-27 Main St.; 1 story; brick.

N. C., Charlotte—Miller-Van Ness Co., R. W. Miller, Mgr., will erect \$25,000 store, Morehead and Tryon Sts.; 2 stories and basement; 72x92 ft.

Okla., Pawhuska—A. H. Gibson will erect store; 1 story and basement; 70x75 ft.; brick and stone; composition roof; wood floors; electric lights; Wilkinson & Crans, Archts., Interstate Bldg., Kansas City.

Tenn., Jacksboro—Campbell County Hardware Co., S. J. Parks, Prest., will erect 2-story brick building.

Tex., Childress—H. D. Turner will erect store on Swearingen St.; brick.

Tex., Dallas—Addie M. Countryman, 420 E. Jefferson Ave., will erect \$14,000 mercantile building; 145x70 ft.; brick and hollow tile; composition roof; metal ceilings; concrete floors; W. H. Reeves, Archt., Andrews Bldg. (Lately noted.)

Tex., Houston—W. W. Gaston will erect \$15,200 store, Welsh and Taft Sts.; 2 stories; brick veneer.

Tex., Houston—Henry Dickson will erect \$10,000 building on Fannin St.; 1-story; frame; 5 stores.

Tex., San Antonio—J. M. Nix will erect building, Navarro and College Sts.; 1-story; 171x115 ft.; brick and concrete; 13 stores and one garage; Henry T. Phelps, Archt. (Lately noted.)

W. Va., Huntington—Edw. Fry will erect building in Guyandotte; 43½x55 ft.; 2 stores on first floor; 3 apartments on second.

Theaters.

D. C., Washington—Crandall Theaters, H. M. Crandall, Mgr., 932-36 F St., will erect theater at 18th and Columbia Rd. to replace Knickerbocker Theater; Thos. W. Lamb, Archt., 644 8th Ave., New York. (Lately noted.)

Fla., Daytona Beach—J. W. Camac will erect theater on Main St.; seating capacity 1000; owner builds.

Md., Baltimore—Suburban Amusement & Developing Co., Park Heights Ave. and Belvidere Ave., Pimlico, will erect \$10,000 addition to motion-picture theater; 35x113 ft.

Warehouses.

Ala., Tuscaloosa—J. T. Horne Veneer Co.'s warehouse; loss \$12,000 to \$15,000.

Hibernia Bldg.; Underwood Contracting Co., Contr., Louisiana Bldg.; both New Orleans.

La., Monroe—Central Savings & Trust Co., Travis Oliver and others, Bldg. Comm.; \$250,000 building, DeSiard and Jackson Sts.; 60x125 ft.; 1 story and basement; fireproof; reinforced concrete and steel; marble, tile, cork and cement floors; hollow fireproof and interior tile; vault lights; steel sash and trim; steam heat; Rathbone DeBuys, Archt.; Underwood Contracting Corp., Contr.; both New Orleans; plans ready for sub-bids Aug. 15 to Sept. 1. Address owner.

Mo., Kansas City—Kansas City Title & Trust Co., 7-story and mezzanine building, 10th and Walnut Sts.; reinforced concrete and rug brick; terra cotta base; 2 electric elevators; vault, 2400 sq. ft.; book elevator in basement; J. C. Sunderland & Walter A. Besecke, Archts.; Mosby-Goodrich Construction Co., Contr.

Tex., Dallas—Willard & Davis; film exchange, Harwood and Jackson Sts.; 55x170 ft.; 5 stories; fireproof; reinforced concrete; composition roof; cement floors; ho'low fireproof and interior tile; metal doors; vaults; wire glass; steel sash and trim; ventilators; vacuum steam heat; freight and passenger elevators; Finn & Dunne, Archts.; Geo. W. Hewitt, Contr.

Churches.

Fla., Miami—Church of The Holy Name, Rev. J. J. McLaughlin, S. J.; Cathedral and rectory; steel reinforced concrete, plaster and curtain walls; O. J. Williams, Archt.; T. F. Hynes, Engr.; St. Johns Construction Co., contrs. at \$199,903.

Md., Baltimore—St. Peter's Catholic Church, Rev. Jas. A. Smyth, Pastor; \$10,000 addition, Poppleton and Booth Sts.; 1 story; brick; 15.8x22.9 ft.; slag roof; T. D. Keating, Contr.

Miss., Jackson—Central Presbyterian Church; brick building; 93x63 ft.; tile and composition deck roof; pine floors; hollow fireproof tile; steel sash and trim; N. W. Overstreet, Archt.; I. C. Garber, Contr.

S. C., Greenville—Earle St. Baptist Church, J. C. Keys, Chrmn. Bldg. Comm.; \$56,000 building; 160x50 and 80 ft.; brick, steel and frame; tin, and tar and gravel roof; wood, cement and cork tile floors; wire glass; 2-pipe steam heat, smokeless boilers; electric lights; Jones & Trott, Inc., Archts., Jones-Bates Bldg.; G. A. Neal and J. A. Alverson Contrs.

S. C., Winnsboro—Presbyterian Church, Colonial type building; brick; J. H. Sams, Archt.; J. T. Dabbs, Contr., both Columbia.

Tex., Fort Worth—First Church of Christ, Scientist; complete brick church, 4th and Lamar Sts.; \$70,000, exclusive of heating, wiring, art glass, pipe organ, etc.; ornamental terra cotta; interior tile; ventilators; wood floors covered with cork or similar material; W. G. Clarkson, Archt.; Gurley & Hollingsworth, Contrs.

Va., Martinsville—Methodist Church, C. T. Womack, Chrmn. Bldg. Comm.; \$68,000 building; 114x60 ft.; concrete foundations; brick walls; tile roof; pine floors with cork covering; Eubank & Caldwell, Archts.-Contrs., Roanoke; contracts for steam heat and electric wiring not let.

City and County.

Md., Baltimore—Stadium—Park Board, J. Cookman Boyd, Prest.; construct wall around stadium, Venable Park, by day labor; \$12,419; Aillo Construction Co., Knickerbocker Bldg., contr. for drainage work, \$43,460.

N. C., Goldsboro—Home—Wayne County will erect 3 buildings for home near Fair grounds; \$32,000; Walter Clark, Contr., Drawer 824, Wilmington.

BUILDING CONTRACTS AWARDED

Apartment Houses.

Fla., West Palm Beach—J. D. Ferraris; \$10,000 building, Lakeview Ave. near Olive St., Phillips Point; frame; 37 x 62 ft.; Newton & Stephens, Contrs.

Ga., Savannah—Mrs. Edna Pate; 2-story building; frame; gas heat; F. B. Merry, Contr.

La., New Orleans—Stuart Handy, Continental Building & Loan Assn.; 2 double apartments, Nashville Ave. and Magnolia St.; total \$10,000; Denis & Handy, Contrs.

La., New Orleans—Lena V. and Marie Rosato, Continental Building & Loan Assn.; 2-story duplex, Nashville Ave. and Magnolia St.; \$10,500; Denis & Handy, Contrs.

Mo., St. Louis—H. Herold, 5223 Kensington St.; \$30,000 building, Clemens Ave.; 40x60 ft.; 3 stories; 6 apartments; Rhodes & Cook, Contrs., 6240 Delmar Ave.

Mo., St. Louis—Paul Jones, Jr., Paul Jones Realty Co.; 5 buildings for Donaldson Court Apts., Delmar Blvd. and Westgate Ave., University City; \$650,000; reinforced concrete; fireproof; stucco; brick trim; Mauran, Russell & Crowell, Archts.; Nixon & Keeley Construction Co., Contr., 1115 International Life Bldg.

Tex., El Paso—C. C. Rigney; \$50,000 building complete; 60x52 ft.; brick and joise construction; 5-ply asphalt, felt and gravel roof; oak floors; Guy L. Frazer, Archt.; R. E. McKee, Contr.

Va., Roanoke—Geo. Van Lear; \$12,000 to \$15,000 building, 2nd St. and Highland Ave.; 40x35 ft.; stucco; asphalt shingle roof; oak floors; hot water heat; electric lights; Eubank & Caldwell, Inc., Archts.-Contrs.

Association and Fraternal.

Tex., San Antonio—Scottish Rite Masons; \$700,000 cathedral; about 150x250 ft.; 2 stories and basement; steel; fireproof; Ralph H. Cameron, Central Trust Bldg., San Antonio, and Herbert M. Greene Co., Dallas, Asso. Archts.; J. B. Huffman, Fort Worth, contr. for stone work at \$114,700; Steves Sash & Door Co., wood frames, doors and windows, \$1392. (Other contracts previously noted.)

Bank and Office.

Fla., Sanford—First National Bank, F. B. Foster, Prest.; \$125,000 building; 6 stories; 50x117 ft.; steel, stone, tile and brick; Barrett roof; concrete floors; ornamental terra cotta; safes; vaults; steel sash and trim; fireproof; heating, lighting and elevators not determined; 2 stores on first floor; 90 offices; Mowbray & Uffinger, Archts., 56 Liberty St.; Geo. A. Fuller Co., Contr., Fuller Bldg.; both New York.

La., Baton Rouge—Central Bank & Trust Co.; \$200,000 building; 1 story and mezzanine; steel and reinforced concrete; stone facing; 75x125 ft.; Rathbone DeBuys, Archt.,

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Okl., Oklahoma City—Fire Stations—City Bob Parman, Comsar, Public Safety; 4 fire stations; 2139 Exchange Ave. and 2039 W. 16th St.; \$6000 each; 1240 W. 36th St. and headquarters addition at 422 W. California Ave.; \$12,000 each; C. E. Huffman, Contr.

Tex., Houston—Fire and Police Station—City, O. F. Holcombe, Mayor; central fire and police station, Preston and Caroline Sts.; 100 x 108 ft.; fireproof; steel frame; tar and gravel roof; wood and concrete floors; Webster vacuum system and heat; Otis elevator or equal; 5 stories; plans by W. A. Dowdy, City Archt.; Don Hall, contr. at \$219,192.

Dwellings.

La., New Orleans—Peoples Homestead Assn.; \$10,300 double bungalow, Audubon and Walnut Sts.; Brehm & Coyle, Contrs.

La., New Orleans—Mrs. Daniel Daunet; raised bungalow, Robert and Franklin Sts.; about \$10,000; C. M. Maitrejean, Contr.

La., New Orleans—L. E. Dennis, 3218 St. Charles Ave.; \$14,000 dwelling, State and S. Frank Sts.; H. S. Burton, Archt.; A. C. Babbins & Sons, Contrs., Marine Bank Bldg.

La., New Orleans—Eureka Homestead Society; \$12,819 building, S. Claiborne and Nelson Sts.; Jones & Roessle, Archts.-Contractors.

Md., Baltimore—West Baltimore Realty Co.; 10 two-story brick dwellings, Baltimore St. near Garrison, La.; 21.8x32 ft.; steam heat; slag roofs; \$25,000; E. H. C. Browne, Archt., Equitable Bldg.; P. C. LaVole Co., Contrs., 1001 W. Lanvale St.

S. C., Charleston—Sidney S. Riggs & E. J. Murphy will erect 4 dwellings, Simons St. near Rutledge St.; \$22,500; J. H. James, Contr.

Government and State.

Ga., Columbus—Officers' Quarters—Constructing Quartermaster; 10 buildings for officers' quarters, Fort Benning; \$175,000; 2 stories; brick first floor, tile above, composition roofs; hardwood and concrete floors; hollow fireproof and interior tile; metal ceilings and doors; steel sash and trim; wire glass; plaster board; rolling partitions; ventilators; steam heat; Youmans & McCrahey, Contrs.

Hospitals, Sanitariums, Etc.

Md., Baltimore—Maryland General Hospital, Linden Ave. and Madison St.; nurses' home, 807-09 Hamilton Terrace; \$100,000; 40x140 ft.; 5 stories; slag roof; concrete, tile and wood floors; fireproof; brick; Wm. W. Emmart, Archt., Union Trust Bldg.; Hicks, Tase & Norris, Inc., 106 W. Madison St., Contrs.

Miss., Meridian—City, W. E. Hopkins, Chrmn. Hospital Bldg. Comm.; East Mississippi Charity Hospital; 4 stories; pressed brick; 234-ft. frontage; wings; Burt Stuart, Archt.; Hancock & McArthur, contrs. at \$78,000.

Mo., St. Louis—Board of Managers, State Eleemosynary Institution; patients' villa, wings to domestic, medical and children's building, State Tuberculosis Sanatorium; \$170,000; fireproof; brick; stone trim; H. H. Hohenschild, Archt., Odd Fellows Bldg.; McCarthy Construction Co., Contr., Chemical Bldg.; both St. Louis.

Mo., St. Louis—Sisters of St. Mary; St. Mary's Hospital, Clayton Rd. and Bellevue Ave., Richmond Hgts.; \$1,000,000 hospital; main building, 7 stories, 290-ft. frontage; 2 wings from main portion, 6 stories; total depth, 120 ft.; brick and stone; fireproof;

2-story power house and laundry; Albert B. Groves, Archt., Stock Exchange Bldg.; Ratermann Building & Contracting Co., Contr., 1943 St. Louis Ave.

Mo., St. Louis—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C.; 7 buildings, U. S. Veterans' Hospital, Jefferson Barracks; concrete frame, tile exterior and cement plaster stucco; asphalt roofs; concrete, pine and hardwood floors; hollow fireproof and interior tile; metal doors; Jas. Stewart & Co., Inc., 1105 Boatmen's Bank Bldg., St. Louis, contr. at \$779,350.

N. C., Charlotte—St. Peter's Hospital; \$65,000 addition for nurses' home; 3 stories and basement; irregular dimensions; fireproof; reinforced concrete; tile and brick; Barrett roof; Marbleoid floors; hot water heat; electric lights; electric passenger elevator; Louis H. Asbury, Archt.; T. C. Thompson & Bros., Contrs.

S. C., Greenwood—Greenwood Hospital, Mrs. E. D. Andrews, Prest. Hospital Assn.; 2-story addition; \$21,000; Steppe & Wilkinson, Contrs.

Va., Bristol—Hospital Comsn., H. O. Game, Chrmn. Bldg. Comm.; \$150,000 King's Mountain Memorial Hospital on W. State St.; C. B. Kearfott, Archt.; Kingsolver & Huddle, Contrs.

Hotels.

Fla., Daytona—T. F. Williams; rebuild Despland Hotel, Magnolia and Palmetto Aves.; \$75,000; 5 stories; 200x220 ft.; 150 rooms with bath; convert first floor into 12 storerooms; stucco and shingle finish; glassed-in sun parlors in rear; Jacob Espe-dahl, Archt.-Contr.

N. C., Charlotte—Citizens Hotel Co., J. H. Little, Prest.; \$713,480 hotel, W. Trade and Poplar Sts.; 14 stories; 250 rooms; fireproof; steel and hollow tile; interior tile; ornamental terra cotta; composition roof; marble or tile floors; metal doors; steel sash and trim; wire glass; mail chutes; Wm. L. Stoddard, Archt., 9 E. 40th St., New York; J. A. Jones Constr. Co., Contr., Charlotte.

S. C., Alken—Alken Fidelity & Real Estate Co.; \$9000 addition to Highland Park Hotel; 50x160 ft.; semi-fireproof; Carey roof; wood floors; vapor heat; Willis Irvin, Archt., Lamar Bldg., Augusta, Ga. Address McGee & McGee, Contrs., Alken.

S. C., Manning—S. A. Nettles; \$40,000 hotel; brick; LaFaye & LaFaye, Archts., Columbia; G. P. Knowles, Contr., Sumter.

Tenn., Memphis—Memphis Hotel Co.; expend \$50,000 to remodel Peabody Hotel, Main St. and Monroe Ave.; Hanker & Cairns, Archts.; H. J. Gilbertson Constr. Co., Contr.

Miscellaneous.

N. C., Chapel Hill—Clubhouse—Chapel Hill Country Club; 35x60 ft.; plans and construction by T. C. Atwood Co., Raleigh.

Tex., Dallas—Exhibit—State Fair Assn., Chamber of Commerce and Automobile Trades Assn.; \$150,000 manufacturers and automobile building at State Fair Park; 485 x 200 ft.; Watson Co., Contr.

Tex., Orange—Clubhouse—Orange Country Club; \$15,200 clubhouse; 1 story; 75x80 ft.; J. M. Pearson, Contr.

Railway Stations, Sheds, Etc.

Tex., Alice—Texas Mexican Ry., S. W. DeWolf V.-P.-Gen. Mgr., Laredo; \$12,000 passenger station; 25x93 ft.; brick and concrete; tile roof; cement floors; Luciano Garcia, Contr.; material purchased.

Tex., Waco—Missouri, Kansas & Texas R. R.; \$103,500 freight depot; 50x300 ft.; brick

and concrete; asbestos slate roof; maple floors; A. L. Sparks, Archt., St. Louis; Mc-Kenzie Constr. Co., Contr., San Antonio; also expend \$26,000 for paving.

Schools.

Ark., Mena—District School Trustees; \$26,000 high school; concrete and brick; slate roof; wood floors; metal ceilings; C. A. Ferrill, Archt., Little Rock; A. B. Cupp, Contr., Nashville, Ark. (See Mch. Wanted—Roofing (Slate).)

Ky., Bowling Green—School Board; \$115,253 high school; 140x170 ft.; 2 stories and basement; brick and stone; Clifford Shopbell & Co., Archts.; Forbes Mfg. Co., Contr., Hopkinsville.

Fla., Jacksonville—Duval County Board of Public Instruction, F. A. Hathaway, Supt.; 8-room addition to West Riverside School; \$50,000; brick and stone; asbestos shingle roof; wood floors; interior tile; J. H. Kutho, Archt.; R. J. Gillispie, Contr.

Ga., Atlanta—Board of Education; 7 portable schools; \$17,450; Minter Homes Co., Contr., Greenville, S. C.

Ga., Dalton—School Board will erect additions to North Dalton and Fort Hill schools; \$10,000; J. L. Wallace, Contr.

Ky., Owensboro—Board of Education, J. L. Foust, Prest.; Paul Dunbar School; \$22,460; brick and stone; A. F. Hussander, Archt., 25 N. Dearborn St., Chicago; Wm. Davis, Contr., Owensboro.

La., Arcadia—School Board; repair Arcadia High School; C. E. Andrews, Contr.

La., Mt. Lebanon—School Board will erect building; J. N. Humphrey and Dick Bree, Contrs.

Md., Baltimore—Sacred Heart Catholic Church, Foster Ave. and 3rd St.; \$63,000 parochial school; 110x66 ft.; 2 stories; brick; concrete and steel; stone trim; built-up roof; pine floors; Francis E. Tormey, Archt., 3411 Beech Ave.; Regan Constr. Co., Contr., 2 E. Lexington St.

Miss., Batesville—Batesville High School Trustees, J. S. Dickens, Secy.; remodel building; \$29,000; N. W. Overstreet, Archt., Jackson; Graven Bros., Contrs., Batesville.

Miss., Iverness—School Board; \$35,000 building; 152x58 ft.; 2 stories; brick, hollow tile and stucco; tile and composition roof; wood floors; N. W. Overstreet, Archt.; W. C. Stout, Contr., both Jackson.

N. C., Boone—Appalachian Training School; \$150,000 administration and academic building; 200 ft. long; 3 stories; H. A. Underwood, Engr., 225 Forest Rd., Raleigh; Poe & Triplett, Contrs., Lenoir.

N. C., Chapel Hill—Sigma Chi Fraternity, Univ. of North Carolina; fraternity house; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C., and Durham, N. C.; T. H. Lawrence, Contr., Durham.

N. C., Durham—Durham County Board of Education; Jno. W. Carr, Jr., Supt.; West Durham School; \$45,000; 1 story; 16 classrooms, auditorium, domestic science department; brick; Thompson & Cannady, Contrs.

N. C., Fountain—Pitt County Board of Education, Greenville; 10-room school; steam heat; Linticum & Linticum, Archts., Raleigh; Sam T. Johnson, Contr., Graham. (See Mch. Wanted—Blackboards; Ceilings (Metal).)

N. C., Graham—County School Board; \$26,000 consolidated high school, Swepsonville; Mebane Rd.; 8 rooms and auditorium; brick; tile roof; maple floors; steam heat; Linticum & Linticum, Archts., Raleigh; Sam T. Johnson, Contr., Graham. (See Mch. Wanted—Blackboards; Ceilings (Metal).)

Okl., Pawhuska—Board of Education; \$40,000 school; 1 story and basement; 56 x 108 ft.; J. O. Bradley, Archt.; Earl H. Smith, Contr.

Okl., Rextroat—Rextroat Consolidated School Dist. Trustees; \$24,985 building; A. W. Williams, Contr., Ardmore.

Okl., Turley—Board of Education; C. A. Roach, Clk.; gymnasium and auditorium; \$19,112; 2 stories and basement; Welman, Fleming & Jayne, Archts., Bliss Bldg., Tulsa; C. B. Sublett, Contr., Turley.

Tenn., Memphis—City Board of Education; La Rose School; 8 classrooms and basement; A. F. Hansen, Archt., McCall Bldg.; J. C. Jones & Co., contr. at \$46,158; J. W. Hull, plumbing, \$5398; Lincoln School; Hubert McGee, Archt.; J. C. Barker Constr. Co., contr., \$49,785; Donlon Heating Co., heating, \$5333; McGowan Plumbing Co., plumbing, \$4400.

Tenn., Memphis—City Board of Education; \$80,000 addition to A. B. Hill School; 3 stories; 10 classrooms; brick and reinforced concrete; Barrett roof; hardwood and concrete floors; ornamental terra cotta; interior tile; ventilators; Jones & Furbringer, Archts., Porter Bldg.; Kaucher Hodges & Co., Contrs., Exchange Bldg. (See Mch. Wanted—Blackboards.)

Tex., Dallas—Board of Education, C. M. Morse, Secy.; Stephen F. Austin School; \$79,323; 2 stories; 22 rooms, auditorium and lunch room; 178x130 ft.; brick; DeWitt & Lemmon, Archts.; Hickey & Montgomery, Contrs.

Tex., El Paso—Board of Education; \$51,000 addition to Manhattan Heights School; 2 stories; brick; 8 rooms; Hignett & Anderson, Contrs.; J. S. Patten, Supervising Archt.

Tex., Littlefield—Board of Education; \$20,000 high school; 2 stories and basement; 45x59 ft.; brick and concrete; tar and gravel roof; wood floors; J. C. Berry & Co., Archts.; W. P. Cooper, Contrs., both Amarillo; material purchased.

Va., Sontag—Snow Creek School Board, Geo. W. Woody, Clk.; 4-room frame school; tin roof; rift pine floors; stores; E. G. Frye, Archt., Mac Bain Bldg., Roanoke; M. S. English, Contr., Sontag.

Stores.

Ala., Union Springs—C. M. Cope; \$12,000 store; 50x100 ft.; brick and concrete; metal roof; hardwood floors; heaters; conduit wiring; W. O. Foster, Archt.-Contr.

Ga., Columbus—T. W. Britton, Phoenix City, Ala.; store at 2nd Ave. and 31st St.; 38x99 ft.; brick; built-up roof; concrete floors; F. Roy Duncan, Archt., Columbus; West Point Iron Works, Contr., West Point.

Fla., Jacksonville—Crane & Co.; \$30,000 store, 738 W. Bay St.; 2 stories; brick; O. P. Woodcock, Contr.

Fla., West Palm Beach—Kettler & Schupler; 2nd-story addition of 6 rooms and bath to business block on N. Narcissus St.; also erect 2-story building in rear; 2 stores on first floor; 5 rooms and 2 baths on second floor; total \$15,973; Bruce Kitchell, Archt.; E. H. Barto, Contr.

Ga., Atlanta—Robt. Zahner, 23 Crescent Ave.; \$85,000 store and office building, Peachtree and 10th Sts.; 2 stories; 72.6x100 ft.; fireproof; reinforced concrete; hardwood and concrete floors; metal doors; steel sash and trim; vaults; wire glass; ventilators; vault lights; E. A. Stuhman, Struc. Engr.-Contr.

Ga., Columbus—M. Goldstein; \$10,000 store and residence, 6th Ave. and 16th St.; brick; F. E. Smith, Contr.

Ky., Louisville—Mrs. Carrie B. Young, 1355 Bardstown Rd.; \$18,000 store and apartments; 65x35 ft.; brick veneer; tile and tin roof; wood and tile floors; steam heat; electric lights; Arthur Tafel, Archt., Coleman Bldg.; Schrader Bros., Contrs.

La., Baton Rouge—Mrs. Sylvan Tobias; \$30,000 store and warehouse on Main St.; 1 story; 132x100 ft.; Heartfield & Heartfield, Contrs.

La., New Orleans—August Nolde; \$17,500 building, N. Rampart and Iverly Sts.; 3 stories; 34 x 128 ft.; brick; reinforced concrete foundations; steel columns, and girders; composition roof; elevator; H. G. Markel, Archt., Whitney Central Bldg.; G. E. and E. E. Neuman Co., Contr.

Md., Baltimore—S. & N. Katz, 105-7 N. Charles St.; five 2-story brick stores, 3512-20 Eastern Ave.; \$20,000; 89x50 ft.; slag roofs; ornamental terra cotta fronts; steam heat; Jno. Freund, Archt., 1307 St. Paul St.; Lorenz Schoenlein & Son, Contrs., 2217 E. Baltimore St.

Md., Baltimore—Israel Shleider, 1834 E. Fairmount Ave.; \$11,000 store and dwelling, Harford Rd. near Hamilton Ave.; 2 stories; 25x80 ft.; brick; Jno. W. Ruthenberg, Contr.

N. C., Asheville—A. Heath Carrier; \$30,000 store, College and Valley Sts.; 3 stories; 50x60 ft.; plate glass front; Heath & Carrier, Archts.; L. L. Merchant, Contr.

S. C., Greenville—J. H. Morgan, Jr.; remodel store on N. Main St.; pressed brick and terra cotta front with plate glass, marble base; extend building 35 ft., etc.; Jones & Trott, Archts.; Jamieson & Earle, Contrs.

Tenn., Chattanooga—Geo. W. Fillauer, 930 E. 3rd St.; \$10,000 store and apartments; 50x40 ft.; brick; composition roof; hardwood, tile and concrete floors; D. F. Brandon, Archt.-Contr., James Bldg.

Tex., Childress—Thaton & Co.; brick store; 25x25 ft.; Mr. Hurdlestone, Contr.

W. Va., Welch—O. J. Douglas; \$40,000 store and office building, McDowell St.; Chas. Smithey, Contr.

Theaters.

Tenn., Erin—James Griffey; 2 stories; 1 story; 25x60 ft.; brick; J. H. Ellarson, Archt., Commerce; J. W. Reynolds, Contr.

W. Va., Charleston—Kanawha Amusement Co.; \$50,000 moving picture theater; 50x120 ft.; brick, terra cotta, concrete and steel; concrete slab, asphalt 5-ply built-up roof; marble and concrete floors; ornamental terra cotta; metal doors; ventilators; steam heat; electric lights; Stanhope S. Johnson, Archt., Lynchburg, Va.; C. C. Jones, Contr., Charles-otn.

Warehouses.

La., Baton Rouge—Henry Cahn, Jr.; \$60,500 warehouse; 130x190 ft.; 1 story; mill construction; composition roof; rift pine floors; freight elevator; Emile Well, Archt., Whitney Central Bldg., New Orleans; J. D. Brown, Contr., Baton Rouge.

Mo., Springfield—M. D. Lightfoot; \$25,000 brick warehouse, Phelps Ave. and Front St.; L. C. Miles, Contr.

N. C., Reidsville—Reidsville Warehouse Co., R. S. Montgomery and others; tobacco warehouse, N. Scales St.; 2 stories; 128x235 ft. with annex 60x60 ft.; brick; metal roof; W. C. Northup, Archt., Winston-Salem; Leaks-ville Lumber Co., Contr., Leaksville.

N. C., Wilson—Co-operative Marketing Association; tobacco warehouse; 150x250 ft.; B. J. Boyles, Contr.

S. C., Seneca—Victor Monaghan Co.; 1-story daylight cloth room and warehouse building; 45x150 ft.; mill construction; steel sash; J. E. Shirrine & Co., Engrs., Greenville; J. C. Cunningham, Contr., Greer.

Va., Drakes Branch—Co-operative Marketing Assn. will erect tobacco warehouse; W. J. Hurt, Contr., Phenix.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Air Compressor.—Sam. T. Williams, (Mchy. Dealers), 223 N. Calvert St., Baltimore, Md. —Prices on electrically driven air compressor suitable for about 3 jack drills, with or without motor; current is A. C., 3 phase, 60 cycle, 220 volt.

Artificial Marble.—Southern Spar & Marble Co., Haywood Bldg., Asheville, N. C. —Names and addresses of mfrs. of artificial marble or marble substitute.

Bagging and Weighing Equipment.—D. E. Collins, 1427 Washington Blvd., Baltimore —Prices on bag holder, bag tier, scale and bags.

Band Mill.—Moore Lumber Co., Jno. W. Moore, Prest., Charleston, W. Va. —In market for 7-ft. band mill; to cut 10,000,000 ft. lumber.

Blackboards.—Sam. T. Johnson, Graham, N. C. —Permanic blackboards.

Blackboards.—Kaucher Hodges & Co., Ex-

change Bldg., Memphis, Tenn. —Blackboards for school of 10 classrooms; approx. sq. ft. slate.

Bleachery.—John F. Banister, Liberty, S. C. —Correspondence with parties interested in establishing bleachery.

Bollers.—Broadfoot Iron Works, Inc., Wilmington, N. C. —In market for one 100 H. P. return tubular boiler.

Boat Outfit.—Oliver Carter, (Mchy. Dealers), 210 S. Water St., Wilmington, N. C. —In market for small steam driven boat outfit about 20 H. P. to include boiler, engine and propeller complete; best cash price, location and condition.

Boiler.—C. M. Wall & Son, Lexington, N. C. —In market for one 150 H. P. high pressure boiler.

Bottles.—Chas. Siegel, Prest., San-Nox Chemical Co., 1326 First Ave., Birmingham, Ala. —Prices on all size bottles.

Boxes (Card Board).—W. P. Law, 120-22 Cashua St., Darlington, S. C. —Correspondence with mfrs. of card board boxes, capacity, 3, 5 and 10 lbs. of pecans.

Box (Wooden).—J. Leo Kolb, 923 New York Ave., Washington, D. C. —Correspondence with mfrs. of ordinary common wood packing boxes.

Brake (Power).—The Steel Products Co., P. O. Box 194, Savannah, Ga. —Prices on new or good, second-hand power brake to bend up to 3/4 or 1/2-in. steel plates 10-ft. long.

Bridge Construction.—Noxubee County Commrs., Jno. A. Tyson, Chancery Clk., Macon, Miss. —Bids until Aug. 7 to repair wooden bridge over Black Water Creek, on Macon and Fern Spring's road; plans, etc. on file.

Bridge Construction.—Palm Beach County Commrs., Hector Harris, Chrmn., West Palm

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Beach, Fla.—Bids until Aug. 1 to build following:

Reinforced concrete bridge across South Fork of St. Lucie River at intersection of Stuart-Annie road; arch or slab; girder type.

Bridge Construction.—State Highway Department Jefferson City, Mo.—Bids until July 31 for following:

Morgan County, State Aid Project No. 20-180, on State road from Versailles westward. Station 564 plus 30, over Richland Creek; 20-ft. reinforced concrete slab span; 18-ft. roadway; 2 reinforced concrete abutments.

Station 676 plus 22, over Moreau Creek; 36-ft. reinforced concrete deck girder span; 18-ft. roadway; 2 reinforced concrete abutments, skewed; R. W. Hodson, Div. Engr., Jefferson City.

Highway bridge across Indian River at Jupiter Narrows; plans, etc. from R. F. Goodman, County Engr.

Bridge Construction.—State Highway Department, Jefferson City, Mo.—Bids until July 26 for following:

Stoddard County, Federal Aid Project No. 118, Section B, on State road from Cairo to Poplar Bluff.

Station 25 plus 00, over Drainage Ditch; 30-ft. I-Beam span: wood floor; 18-ft. roadway; 2 reinforced concrete abutments.

Station 405 plus 28, over Drainage Ditch; 40-ft. I-Beam span; wood floor; 18-ft. roadway; 2 reinforced concrete abutments.

Station 472 plus 09, over Drainage Ditch; 40-ft. I-Beam span; wood floor; 18-ft. roadway; 2 reinforced concrete abutments.

Station 67 plus 08, over Drainage Ditch; 60-ft. pony steel, truss; wood floor; 18-ft. roadway; 2 reinforced concrete abutments, skewed; M. S. Murray, Div. Engr., Sikeston, Mo.

Bridge Construction.—North Carolina State Highway Comsn., Raleigh, N. C.—Bids opened July 25 to build bridge over Richardson Creek near Monroe; Union County, State Project No. 694; 82,380 lbs. reinforcing steel; 682 cu. yds. concrete; plans, etc., on file and from Dist. Engr., Charlotte, N. C.

Building Material.—M. A. Long Co., 1523 Munsey Bldg., Baltimore, Md., is estimating on construction of wing to main building, U. S. Public Health Service Hospital, Tanner's Creek, Norfolk, Va., and desires sub-bids and estimates until July 28.

Building Materials.—D. E. Collins, 1427 Washington Blvd., Baltimore, Md.—Prices on sand and cement.

Building Materials.—E. S. Shurtleff, Sanitary Steam Laundry, Pikeville, Ky.—In market for building materials for steel frame building, factory type.

Building Material Catalogues.—Elton J. Moughton, Room 7, Miller Bldg., Sanford, Fla.—Manufacturer's Catalogues and prices on plumbing, hardware, heating and ventilating and other catalogues of similar nature.

Cables (Fire Alarm Telegraph).—Board of Awards, Richard Gwinn, City Register, City Hall, Baltimore, Md.—Bids until Aug. 2 for furnishing Fire Dept. cable for fire alarm telegraph department; information on application.

Canning Machinery.—Gelfand Mfg. Co., 210 S. Paca St., Simon Gelfand, Prest., Baltimore, Md.—Prices on filling, capping, labeling and conveying machinery.

Cans.—S. S. Williams, Norway, S. C.—Correspondence with mfrs. of mch., cans, labels, etc., for small canning plant.

Cans (Jacket).—Chas. Siegel, Prest., San-Nox Chemical Co., 1326 First Ave., Birmingham, Ala.—Prices on jacket cans and ordinary small cans.

Cars (Dump).—Broadfoot Iron Works, Inc., Wilmington, N. C.—In market for three-yard dump cars.

Ceilings (Metal).—Sam T. Johnson, Graham, N. C.—Metal Ceilings.

Cement.—Office of Mississippi River Commission, 1st and 2nd Districts, Memphis, Tenn.—Bids until Aug. 1 for furnishing and delivering about 7000 sacks of Portland cement; information on application.

Churns.—Rizk Bros., 412 W. Church St., Orlando, Fla.—Correspondence with mfrs. of churns.

Cleaner (Wheat).—See Mill (Hominy.)

Clipping Machines (Horse).—Rizk Bros., 412 W. Church St., Orlando, Fla.—Correspondence with mfrs. of horse clipping machines.

Crate (Egg) Machine.—Tom Boazman, La-Fayette, Ala.—Second-hand veneer machine suitable for making egg crates.

Crushers.—Hackley Morrison Co., (Mch. Dealers), Richmond, Va.—Two 24-in. Symons disc crushers.

Crusher (Jaw).—Broadfoot Iron Works, Inc., Wilmington, N. C.—In market for one jaw crusher to crush stone to 4-in. diam.

Cotton Mill Machinery.—Chamber of Commerce, C. C. Lydick, Gen. Secy., Muskogee, Okla.—Correspondence with cotton mill machinery mfrs.

Dredging.—U. S. Engrs. Office, Galveston, Texas.—Bids until August 15 for dredging the Houston Ship Channel; information on application.

Dredging.—U. S. Engineers Office, 309 Custom House, Baltimore, Md.—Bids until Aug. 21 for dredging in Baltimore harbor and channels; information on application.

Dredging.—U. S. Engr. Office, 815 Witherspoon Bldg., Philadelphia, Pa.—Bids until Aug. 7 to dredge Delaware River in front of Camden, N. J.; further information on application.

Drainage Systems.—Comms. of Lost Lake Drainage District of Quitman County, Marks, Miss.—Bids until Aug. 7 at office of Mark and Manship, for excavation of about 16 mi. of canals, approx. 316,000 cu. yds.; plans, etc. from W. R. Wallis, Engr.

Dryer (Wheat).—Lancaster Roller Mills, Kilmarnock, Va.—Prices on small capacity wheat dryer; oil heated second-hand if in good condition.

Elevator.—Treasury Dept., Jas. A. Wetmore, Act. Supv. Archt., Washington, D. C.—Bids until Aug. 9 for installation of one electric elevator in East wing, Main Hospital Bldg., U. S. Veteran's Hospital, Tanner's Creek, Norfolk, Va.; drawings and specifications from office Supv. Archt.

Elevator.—Phillip Forscher Wagon & Mfg. Co., Inc., 610 Montegut St., New Orleans, La.—Prices on second-hand elevator, 6000 lbs. capacity.

Elevator Casings.—Hackley Morrison Co., (Mch. Dealers), Richmond, Va.—Four 500 lin. ft. steel elevator casings.

Engine.—C. M. Wall & Son, Lexington, N. C.—In market for one 125 H. P. engine.

Fire Clay.—D. E. Collins, 1427 Washington Blvd., Baltimore, Md.—Prices on fire clay.

Engine (Steam).—Broadfoot Iron Works, Inc., Wilmington, N. C.—In market for one 75 H. P. steam engine.

Engine (Fire).—City Council, W. B. Coleman, Clerk, Kinston, N. C.—Bids opened July 24 for 1 approved 750 gal. triple combination motor fire engine.

Fire Department Station.—Geo. M. Ansel, Chrmn., Board of Water Comms., Wall-halla, S. C.—Bids until August 7 for construction of 2 story brick building with

basement for combination fire department house and pumping station; plans and specifications from Ryan Engineering Co., Engrs., Columbia, S. C.

Fire Escapes and Alterations to Schools.—Board of Awards, Richard Gwinn, City Register, City Hall, Baltimore, Md.—Bids until Aug. 2 for fire escapes and alteration at Schools Nos. 11, 54 and Garrett Heights School and Curtis Bay schools; drawings, etc., on file at office of J. F. Crowther, Bldg. Inspector.

Fly Screens.—Treasury Dept., Office of the Supv. Archt., Washington, D. C.—Bids until Aug. 2 for furnishing and installing fly screens for cottages Nos. 1-4-5 and Mess Hall and Administration Bldg. of U. S. Public Health Service Hospital No. 4 at Perryville, Md.; information on application.

Fuel Oil.—Charity Hospital, New Orleans, La.—Bids until Aug. 1 to supply Hospital with fuel oil for year Sept., 1922 to Aug. 31, 1923; deliveries to be made to switch track in tank cars; 14-16 Beume gravity fuel oil, 150 flash, water and sediment less than 1/2 of 1 per cent; not less than 6,300,000 B. T. U's per bbl. of 42 gals; approx. 15,000 bbls.

Forges (Agricultural).—Rizk Bros., 412 W. Church St., Orlando, Fla.—Correspondence with mfrs. of agricultural forges.

Generator Sets.—Acme Mfg. Co., Acme, N. C.—One 250 H. P., A. C., 3 phase, 60 cycle, 220 volt generator, direct connected to a good make of engine; two 35 H. P. slip ring and three 5 H. P. 900 R. P. M. motors for same current.

Generator Set.—Standard Electric Mch. Co., (Mch. Dealers) 7-9 E. Hill St., Baltimore, Md.—Waterwheel generator and wheel—900 to 1000 K. W., 3 phase, 40 cycle, 600 volt; 220 or 300 RPM; also exciter for above.

Generator Set.—E. S. Shurtleff, Sanitary Steam Laundry, Pikeville, Ky.—In market for 20 or 30 K. V. A., 60 cycle, 3 phase generator, either belted or possibly an engine and generator.

Grinders (Feed).—C. E. Pleas, Chipley, Fla.—Prices and catalogues on different feed grinders.

Grinding and Polishing Machinery.—The Felstone Co., 326 Haywood Bldg., 46 Haywood St., Asheville, N. C.—Prices on stone cutting, grinding and polishing mch.

Hats and Gauntlets.—Marine Corps, Quartermasters Dept., Washington, D. C.—Bids until July 31 for furnishing 37,500 field hats and 1000 pairs gauntlets, horsehide, for delivery to Quartermaster, U. S. M. C., 100 S. Broad St., Philadelphia, Pa.; (Schedule No. 49-1923); information on application.

Heating Systems.—Board of Awards, Richard Gwinn, City Register, City Hall, Baltimore, Md.—Bids until Aug. 2 for hot water heating system in Fairfield and Morrell Park colored schools; drawings on file at office of J. F. Crowther, Inspector of Bldgs.

Hoisting Engine.—Saml. T. Williams, (Mch. Dealers), 223 N. Calvert St., Baltimore, Md.—Prices on cable way hoisting engine with winding drum and endless rope drum for electrical drive with or without 35 to 40 H. P. motor; current is A. C., 3 phase, 60 cycle, 220 volt.

Hospital Equipment.—Treasury Dept., Jas. A. Wetmore, Act. Supv. Archt., Washington, D. C.—Bids until July 31 for mechanical equipment for east wing, U. S. Veteran's Hospital, Tanner's Creek, Norfolk, Va.; specifications and drawing from office Supv. of Construction at site or office Supv. Archt.

Hospital Equipment.—E. B. St. Clair, City Mgr., Teague, Tex.—Bids until Aug. 4 for equipment for City Hospital; itemized lists

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and bidding blanks from Mr. St. Clair or from Paul G. Silber & Co., Archts., San Antonio.

Labels.—See Cans.

Lathe (Bed Engine).—Duncan Machinery Co. (Mchy. Dealers), Dempster Bldg., 721 N. Central Ave., Knoxville, Tenn.—Dealers' prices on used, second-hand and rebuilt 16 to 24-in. swing by 8, 9, or 10-ft. bed engine lathe; cheap lathe but in good running condition.

Lead (Sheet).—The Felstone Co., 326 Haywood Bldg., 46 Haywood St., Asheville, N. C.—Prices on sheet lead.

Lighting Fixtures.—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.—Bids until July 26 for furnishing and installing lighting fixtures in U. S. Veterans Hospital, Augusta, Ga.; drawings and specifications from office Supvg. Archt.

Log Locomotive.—Moore Lumber Co., Jno. W. Moore, Prest., Charleston, W. Va.—In market for log locomotive.

Locomotive.—Broadfoot Iron Works, Inc., Wilmington, N. C.—In market for one 15-ton locomotive.

Log Trucks.—Moore Lumber Co., Jno. W. Moore, Prest., Charleston, W. Va.—In market for log trucks.

Metal Works.—City, J. N. Lauders, Pur. Agt., Atlanta, Ga.—Bids until Aug. 10 for mfr. and delivery of superstructure metal work for viaduct; plans, etc., on file, and from Harrington, Howard and Ash, Consit. Engrs., Kansas City, Mo. and Robert & Co., Inc., Associated Consit. Engrs., Atlanta, Ga.

Mill (Hominy).—D. F. C. Harry, Grover, N. C.—In market for hominy mill; also wheat cleaner, either new or second-hand.

Mining Cars and Equipment.—Nora Coal Co., Jas. M. Gerown, Prest., Danta, Va.—In market for mining cars, new or second-hand side dump cars, with 3-ft. gauge, 5 sq. yds. capacity, for hauling coal from mine to railway; and other mining equipment.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Pur. Officer, Washington, D. C.—Bids until July 28 to furnish corrugated roofing, copper rivets, brass flush pipes, hasps, rubber balls (flush tank), oars, leather belting, diamond cutters, etc.; blank forms and information (Circular 2296) on application at office of Panama Canal Asst. Purchasing Agents, at New cisco, Cal.; U. S. Engr. offices throughout the country.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Gen. Purchasing Agt., Washington, D. C.—Bids until Aug. 8 for asphalt roofing; bronze seal strips; wire nails; globe valves; toilet soaps, floor wax; milk bottles and caps; ash, cypress, maple, poplar and oak lumber; rice straw, etc.; blank forms and information (Circular 1488) on application to office of Panama Canal; Asst. Pur. Agt. at Fort Mason, Cal.

Mixers (Bread).—Risk Bros., 412 W. Church St., Orlando, Fla.—Correspondence with mfrs. of bread mixers.

Mixers (Concrete).—D. E. Collins, 1427 Washington Blvd., Baltimore, Md.—Prices on sand and cement mixers.

Motors.—Wilson-Hock Co., City Point, Va.—In market for two 60 H. P., 1200 R. P. M., 440 volt, good second-hand motors, complete with starting equipment.

Motors (Electric).—Standard Electric Mchy. Co., (Mchy. Dealers) 7-9 E. Hill St., Baltimore, Md.—Three phase, 40 cycle motor complete with panels, rheostats, and switches as follows:—2-250 H. P.; 2-150 H. P.; 1-100 H. P.; 1-75 H. P.; 1-15 H. P.; specify speeds, type, form, pulley sizes and no. of bearings.

Motors (Electric).—Acme Mfg. Co., Acme, N. C.—Two 25 H. P. slip ring and three 5 H. P. 900 R. P. M. motors, for 3 phase, 60 cycle, 220 volts.

Motors (Electric).—Hackley Morrison Co., Inc. (Mchy. Dealers), Richmond, Va.—One 75 H. P. slip ring, 440 volts, 3 phase, 60 cycle, induction motor, G. E. or Allis Chalmers preferred; one 75 H. P. squirrel cage motor.

Muriatic Acid.—The Felstone Co., 326 Haywood Bldg., 46 Haywood St., Asheville, N. C.—Prices on commercial muriatic acid.

Oil Burning Apparatus.—Jas. A. Wetmore, Acting Supvg. Archt., Washington, D. C. Bids until Aug. 12 for furnishing and installing new oil burning apparatus, etc. at U. S. post office and court house, Houston, Tex.; information on application.

Paper (Printing, Writing, Blotting, etc.).—Joint Committee on Printing in Capitol, Washington, D. C.—Bids until July 31 for furnishing paper for public printing and binding for term of six months, from Sept. 1, 1922; information on application to Geo. H. Carter, Public Printer, Washington.

Paving.—Geo. M. Willing, City Clk., Vero, Fla.—Bids until July 28 for street paving and curbing; plans, etc. from Carter & Damerow, Civil Engrs., Vero, Fla.

Paving.—S. W. Porter, Mayor, St. Cloud, Fla.—Bids until Aug. 14 to lay 2700 sq. yds. brick pavement, and 1250 lin. ft. concrete or granite curb; plans, etc. from Jno. B. Collins, Clk. and Ramsey-Herdon Co., Engr., Orlando, Fla.

Paving.—Warren County, Board of Supervisors, J. G. Sherard, Clerk, Vicksburg, Miss.—Bids until Aug. 9 to repair walks and drains on west side County Jail; plans, etc., from Chancery Clerk.

Paving.—City, Myers & Noyes, Engrs., 1107 Dallas County Bank Bldg., Dallas, Tex.—Bids opened July 24; 10,000 sq. yds. 6-in. concrete paving base; 10,000 sq. yds. 2-in. asphaltic surfacing; 8500 sq. yds. single course concrete paving, in County Club Estates, Dallas Addition; plans, etc., on file.

Paving.—J. Frank Paxton, Mayor, Winters, Tex.—Bids until Aug. 14 for 3 blocks 6-in. concrete pavement with curbing; 5905.50 sq. yds. concrete paving; 2032.68 lin. ft. concrete curbing; 2 concrete culverts; plans, etc., from E. A. Shepperd, City Secy.

Paving.—W. ... Dunlap, Mayor, Humboldt, Tenn.—Bids opened July 27 for 8475 sq. yds. rock asphalt paving; 600 tons crushed rock; 600 tons gravel; 500 lin. ft. curb and gutter; plans, etc., from J. H. Weatherford, Engr., 64 Porter Bldg., Memphis, Tenn.

Paving.—City, W. S. Tomlinson, Engr., Columbia, S. C.—Bids opened July 25 for street improvement; 15,000 sq. yds. roadway pavement; 2600 lin. ft. combination curb and gutter; 500 lin. ft. reset curb; 1500 sq. yds. sidewalk; 1200 sq. yds. gutter; asphalt and asphaltic concrete; plans, etc., on file.

Paving.—R. C. Sempie, Mayor Pro Tem, El Paso, Tex.—Bids until July 27 to lay Warrenite-bitulithic pavement on following streets: E. 2nd St. from St. Vrain to Park Sts.; Louisville St. from Piedras to Copla Sts.; Mountain Ave. from Myles to Dyer Sts.; Mundy Ave. from W. Missouri to W. Yandell Blvd.; Bisbee St. from San Marcial to Stevens Sts.; S. Oregon from 7th to 11th Sts.; S. Virginia from San Antonio to 8th Sts.; pave Park St. from south end of bridge at 8th St. to Cotton Addition.

Paving.—A. A. Bunn, Mayor, Henderson, N. C.—Bids until Aug. 17 to pave certain streets; 60,000 sq. yds. sheet asphalt and bituminous concrete; also Warrenite-bitu-

lithic, etc.; grade, construct concrete curb and gutters; install storm drains; plans, etc., from S. B. Burwell, City Clerk, or R. D. Gladding, Engr.

Pipe and Tubing.—Columbia Fence & Wire Co., Dallas, Tex.—In market for new and second-hand pipe and tubing.

Pump (Centrifugal).—Broadfoot Iron Wks., Inc., Wilmington, N. C.—In market for one centrifugal pump, 8-in. discharge.

Power House Equipment, etc.—Bureau of Yards and Docks, Navy Dept., Washington, Bids until Aug. 2 for addition to power house, including foundation for all equipment; lay approx. 800 lin. ft. of 20-in. cast iron bell and spigot circulating water pipe; install 6 evaporators, 2 condensers, 2 distilled and 2 dense sea water pumps, 1 drip trap, with necessary fittings and valves; furnish and install traveling crane, 2 turbine driven centrifugal circulating pumps, combined twin pump and receiver, 3 drip traps, oil separator, sluice gates and strainers, including operating mechanism in connection with circulating water mains, necessary accessories and complete piping systems; for distilling plant equipment at Naval Operating Base, (Naval Station) Key West, Fla.; concrete construction, brick walls, asbestos shingle roof, steel roof trusses, steel sash, doors, platforms and stair; Spec. 4546; plans on file or with Commandant at Key West, Fla.

Printing Plant Equipment.—Journal Ptg. & Publishing Co., W. Ryland Martin, Prest., Roanoke, Va.—Prices on 6 or 7 column press, 2 to 4 pages, (second-hand), linotype machine, materials essential to printing business.

Press (Job Printing).—Whitelock Press, Inc., W. J. Whitelock, Secy., Huntington, Ind.—In market for two No. 3 Meihle presses for job work; with power equipment.

Pump (Turbine).—Jas. A. Wetmore, Acting Supvg. Archt., Washington, D. C.—Bids until Aug. 15 for furnishing and installing complete electric motor driven turbine pump in U. S. Post Office, St. Louis, Mo.; information on application.

Rails (Steel).—Moore Lumber Co., Jno. W. Moore, Prest., Charleston, W. Va.—In market for 25 lb. relay steel rails.

Rails (Relaying).—Broadfoot Iron Works, Inc., Wilmington, N. C.—In market for 75 tons of 40 lb. relaying rails.

Rails (Relaying).—Nora Coal Co., Jas. W. Gerow, Prest., Dante, Va.—In market for 35 lb. or 40 lb. relaying rails with splice bars, bolts, nuts and spikes.

Refrigerating Plant.—C. E. Pleas, Chipley, Fla.—Prices on small refrigerating plant with capacity of 50 or 600 lbs. ice to cool room about 10x15x7 ft.

Refrigerating Plants (Household).—F. H. Smith, Box 412, Canton, N. C.—Correspondence with mfrs. of household refrigerating plants, with view to representation.

Retaining Wall and Excavation.—Thos. Hays, Prest., Cabell County Court, Huntington, W. Va.—Bids until August 15 for removal of old stone masonry abutments placing of necessary temporary structures to maintain traffic and construction with cement concrete masonry new abutment and retaining wall at W. End of Ohio River Rd. bridge; plans, etc. on file with Jos. N. Doyle, County Road Engr., 320 1/2 Ninth St.

Riprap Stone.—Supt. of Lighthouses, Baltimore, Md.—Bids until Aug. 11 for furnishing and placing approx. 600 tons riprap stone at Old Plantation Flats and Tangier Sound Light Stations, Va.; information on application.

Road Construction.—State Highway De-

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partment, Jefferson City, Mo.—Bids opened July 26 for following:

Stoddard County, 9.943 mi. State road from Poplar Bluff to Cairo; gravel surfacing; Federal Aid Project No. 118, Section B.

Stoddard County, 4.256 mi. State road from Cairo to Poplar Bluff; gravel surfacing; Federal Aid Project No. 179; grade and construct drainage structures on both; M. S. Murray, Div. Engr., Sikeston, Mo.

Road Construction.—Kanawha County Court, R. N. Moulton, County Clerk, Charleston, W. Va.—Bids until Aug. 16 to surface 2 mi. road in Union Dist.; from brick road at Lock 6 to County line at Dunbar; plans, etc., from P. J. Walsh, Court House.

Road Construction.—Morgan County, Board of Revenue, J. P. Troup, County Judge, Decatur, Ala.—Bids until July 31 to relay 10 mi. macadam road from Hartselle to Lawrence County line, through Danville; 11,000 cu. yds. crushed limestone; plans, etc., on file, and from M. S. Bingham, County Engr.

Road Construction.—Ohio County Comms., H. C. Underwood, Clk., Wheeling, W. Va.—Bids until Aug. 12 to lay portion Stone Church road in Triadelphia Dist.; 1200 ft.; brick surface on slag base; plans, etc., on file or from A. C. Hoffman, County Road Engr.

Road Construction.—Palm Beach County Comms., Hector Harris, Chrmn., West Palm Beach, Fla.—Bids until Aug. 1 to lay 11½ mi. hard surfaced road from Palm City, southward, westward, eastward and connecting with Stuart-Annie road; plans, etc., from R. F. Goodman, County Engr.

Road Construction.—Palm Beach County Comms., Hector Harris, Chrmn., West Palm Beach, Fla.—Bids until Aug. 2 to lay 10-ft. shell Ocean Boulevard on Jupiter Island, through Bon Air Beach; plans, etc., from R. F. Goodman, County Engr.

Road Construction.—Angelina County, John F. Robinson, County Judge, Lufkin, Tex.—Bids opened July 26 for following:

4.19 mi. State Highway No. 35 from Polk County line north; 10,920.6 sq. yds. gravel surfacing; 475 cu. yds. concrete; 40,302 lbs. reinforcing steel; alternate bids on crushed rock or gravel base with bituminous surface treatment, Federal Aid Project No. 271-D.

5.47 mi. State Highway No. 35 from point 5.1 mi. south from Lufkin toward Polk County line; 14,278 cu. yds. gravel surfacing; 29,717 lbs. reinforcing steel; 352.9 cu. yds. concrete; surfacing to be furnished by County.

5.09 mi. State Highway No. 35 from Lufkin south; 13,263 cu. yds. gravel surfacing; 47,749 sq. yds. 1½-in. bituminous treatment; 913.7 cu. yds. concrete; 83,001 lbs. reinforcing steel; gravel furnished by County; G. R. Abney, County Engr.

Road Construction.—Williamson County, H. A. Hodges, County Auditor, Georgetown, Tex.—Bids until Aug. 1 for following:

11.4 mi. Taylor-Thornedale road on State Highway No. 43-A; gravel surface; 19,120 lbs. reinforcing steel.

10 mi. Georgetown-Jarrell road on State Highway No. 2-C; concrete; 95,055 lbs. reinforcing steel; plans, etc., from R. S. Nichols, County Engr., Georgetown, or State Highway Dept., Austin, Tex.; F. D. Love, County Judge.

Road Construction.—Chatham County Comms., G. Reuben Butler, Clk., Savannah, Ga.—Bids until Aug. 8 to pave 17.23 mi. road as follows:

White Bluff road.

Montgomery Cross roads.

Parts of Skidway road, including Bonaventure branch; will also pave Henry St. extended and LaRoche Ave.; plans, etc., on file.

Road Construction.—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md.—Bids until Aug. 8 for following:

Charles County, 2 mi. State Highway from end Cont. Ch-17 toward Lyons Corner; gravel, Ch-20.

St. Mary's County, 2.5 mi. State Highway from Harpers Corner toward Laurel Grove; gravel; Cont. SM-18.

Dorchester County, 1 mi. State Highway from end Cont. D-24 toward Lloyds; concrete; Cont. D-26.

Road Construction.—State Highway Dept., Montgomery, Ala.—Bids until Aug. 15 for following roads:

Selma—Uniontown.

Selma—Montgomery; total distance 4.7 mi.; 51,000 sq. yds. one course plain cement concrete pavement; 57,309 lbs. reinforcing steel in bridges; plans, etc., from W. S. Keller, State Highway Engr., and Div. Engr. Selma, Ala.

Road Construction.—State Highway Dept., Columbia, S. C.—Bids opened July 26 to lay 1.386 mi. Garner's Ferry road from Survey Station 365 X15 to Survey Station 438 X33; Richland County, State Aid Project; 3945 cu. yds. sand clay surfacing; 4435 lbs. steel reinforcement; plans, etc., from J. R. Pennell, County Engr., or State Highway Engr., Columbia, S. C.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until July 27 to lay 4.571 State road from Monett to Eureka Springs; Federal Aid Project No. 151; grade and construct drainage structures; Ray Dunlap, Div. Engr., Frisco Bldg., Joplin, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until July 31 to lay .387 mi. State road from Versailles westward; State Aid Project No. 20,189; grade and construct drainage structures; R. W. Hodson, Div. Engr., Jefferson City, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Aug. 4 for following:

Gasconade County, 4.116 mi. State road from Herman to Drake; gravel surfacing; State Aid Project No. 20,185; S. M. Rudder, Div. Engr., Bristol Bldg., Groves, Mo.

Harrison County, State road from Bethany northward, southward and westward; 8-in. sledged stone base; rock asphalt, penetration bituminous macadam, on asphaltic concrete surface; 6-in. sledged stone base with 4-in. waterbound macadam intermediate course and inverted penetration macadam surface course; 1 course cement concrete pavement; Federal Aid Project No. 8; N. R. Sack, Div. Engr., Ballinger Bldg., St. Joseph, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids opened July 25 for 4.604 mi. State road from Jackson County line to Blackburn; Lafayette County, State Aid Project No. 20,164; grade and construct drainage structures, guard rail, etc.; A. C. Lingley, Div. Engr., Reliance Bldg., Kansas City, Mo.

Road Construction.—Pickens County, Bd. of Comms., Pickens, S. C.—Bids until Aug. 15 for following projects:

162-B—1.547 mi. road from Survey 691-29 to Reedy Cove Gap; 16,338.2 sq. yds. crushed stone surfacing.

164—6.978 mi. road from Reedy Cove Gap to North Carolina line; 9379 cu. yds. top soil surfacing; 21,894 sq. yds. crushed stone surfacing; plans, etc., from County Supvr., Pickens, and from State Highway Engr., Columbia, S. C.

Road Construction.—Warren County, Bd. of Suprs., J. G. Sherard, Clerk, Vicksburg, Miss.—Bids until Aug. 9 to gravel City

Cemetery road from County line to second gate; plans, etc., from Chancery Clerk.

Road Construction.—Abbeville County Highway Comms., J. S. Stark, Chrmn., Abbeville, S. C.—Bids until July 27 to lay 8.78 mi. top soil road from Due West to Kay Place, via Ashley's Store and Keowee Church; grade, construct culverts, headwalls, etc.; plans etc., from H. B. Humbert, County Engr.

Road Construction.—Bailey County Comms., Court, R. J. Klump, County Judge, Muleshoe, Tex.—Bids about Oct. for 19 mi. natural sand clay road; \$60,000; C. L. Hasie, Engr. in charge. Littlefield, Tex. (Lately noted bids until July 15.)

Road Construction.—Pickens County Comms., B. G. Robison, County Judge, Carrollton, Ala.—Bids until Aug. 14 to lay 8 mi. roads in county; plans, etc., on file, and from

Road Construction.—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md.—Bids until Aug. 1 for following:

Frederick County, 1.35 mi. State Highway on Buckeystown Pike from end Cont. F-31 Extd. to Furnace Branch Bridge; concrete; ont. F-52.

Howard County, 1.5 mi. State Highway from end of Cont. 453 at Benson Branch to Triadelphia Pike; concrete; Cont. H0-23.

Harford County, 1 mi. State Highway from Whiteford toward Dublin; concrete; Cont. H-29.

Charles County, 2.6 mi. State Highway from Mason Springs to Marbury; gravel; Cont. Ch-23.

Cecil County, 2 mi. State Highway from Calvert toward Fair Hill; concrete; Cont. Ce-41.

Queen Anne's County, 2 mi. State Highway from Sudlersville toward Millington; concrete; Cont. Q-22.

Dorchester County, 1 mi. State Highway from Eldorado toward Federalsburg; concrete; Cont. D-25.

Wicomico County, 2 mi. State Highway from Salisbury toward Snow Hill; concrete; Cont. Wi-21.

Road Construction.—S. K. Jones Constr. Co., 580 Randolph Bldg., Memphis, Tenn.—To sublet county road work near Decatur, Ala.; Water bound macadam construction.

Road Construction.—Henderson County, Board of Road Comms., W. P. Bane, Chrmn. Board of Trustees, Hendersonville, N. C.—Bids until Aug. 1 for surface treating 63,300 sq. yds. macadam road with bituminous coal or carot coat; plans, etc., from Chas. Turner, Civil Engr., Hendersonville.

Road Construction.—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La.—Bids until Aug. 10 to gravel surface following:

8.31 mi. Homer-Minden Highway; Section A.

4 mi. Homer-Farmville Highway; Section B; 5685 cu. yds. washed gravel; 5475 cu. yds. sand clay gravel; plans, etc., from J. M. Fourmy, State Highway Engr.

Road Construction.—Palm Beach County Comms., Hector Harris, Chrmn., West Palm Beach, Fla.—Bids until Aug. 1 for following:

6.8 mi. Ocean Blvd. between Delray and Boca Ratone. (Lately noted bids until July 15.)

5 mi. hard surfaced road from Dixie Highway in Hobe Sound; 4 mi. westward; 1 mi. branch road.

2½ mi. road from County line to Sewell Point; resurface.

¾ mi. road from Dixie Highway to Indian River, in Hobe Sound; resurface.

12 mi. on Stuart-Annie road from Hanson Grant to Township line, between Townships

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39 and 40 south; plans, etc., from R. F. Goodman, County Engr.

Road Construction.—Schleicher County, C. A. Womack, County Judge, Eldorado, Tex.—Bids opened July 26 for improving State Highway No. 4; 86,896 gals. asphalt; 3934 cu. yds. cover material, crushed; 43,400 gals. water; plans, etc., from J. L. Neill, County Engr., and State Highway Dept., Austin.

Road Roller.—Oliver Carter, (Mchy. Dealers) 210 S. Water St., Wilmington, N. C.—Prices on 5 ton Kelly-Springfield tandem road roller; complete details, location and best price.

Roasters and Mills (Coffee).—Willis Grocery Co., B. D. Harden, Mgr., Tifton, Ga.—Correspondence with mfrs. of coffee roasters and mills.

Roofing (Slate).—A. B. Cupp, Nashville, Ark.—Thirty squares slate roofing f. o. b. Mena, Ark.

Roofing (Factory).—C. M. Wall & Son, Lexington, N. C.—In market for roofing for two factory buildings.

Roofing Slate.—Judge W. A. Way, Pinehurst, N. C.—Rough texture blue-black or dark green roofing slate.

Rolls.—Hackley Morrison Co., Inc., (Mchy. Dealers), Richmond, Va.—One set 36-16 rolls, four sets 24-14 rolls.

Sewer Construction.—A. D. Owens, Clerk, City of Jacksonville, Tex.—Bids until Aug. 1 for furnishing labor, materials and constructing complete sewer system of approx. the following: 29,600 ft. 6-in. vitrified sewer pipe; 250 ft. 6-in. cast iron pipe; 4700 ft. 8-in. vitrified sewer pipe; 2000 ft. 8-in. cast iron pipe; 1500 ft. 10-in. vitrified sewer pipe; 2000 ft. 10-in. cast iron sewer pipe; 45 manholes; 22 lampholes; 6 flush tanks, 1 chlorinator; 4000 cu. yds. in trenches; 1 disposal plant complete; plans and specifications with Elrod Engineering Co., Const. Engrs., 3206 Elm St., Dallas.

Sewer Construction.—Ralph H. Noonan, Medina County Judge, Hondo, Tex.—Bids until Aug. 14 to construct storm sewer for the following: 2000 cu. yds. trench excavation; 275 cu. yds. 1-2-4 concrete used in constructing the following: 1500 ft. of 30-in. circular storm sewer; 3 or more manholes; (with cast iron grating); 100 ft. of curbing; four 6-ft. inlets, type D, San Antonio Standard; 200 lin. ft. 15-in. vitrified piping in place; 1500 lbs. of reinforced steel; plans and specifications obtainable from office of Walton & Arneson, Engrs., 418 Gunter Bldg., San Antonio.

Sewer Construction.—City, Dr. V. L. Ward, Mayor, Batesville, Miss.—Bids until Aug. 9 for furnishing materials and constructing extensions to sanitary sewers; approx. 10-300 ft. of 8-in. vitrified pipe; 33 manholes; one flush tank; and 64-ft. of 8-in. gas pipe; plans, etc. from Mayor's office or from Bobo & Collier, Clarksdale, Engrs.

Sewers and Appurtenances.—Borough of South Bound Brook, N. J., Thos. L. Walters, Clk.—Bids until August 2 for construction of sanitary sewers and appurtenance in Maple Ave., Catharine St., Lawrence St., Canal Rd. and Edgewood Terrace; approx. 2365 ft. of 8 in. sewer and 9 manholes; plans, etc. on file at office of H. C. Van Emburgh, Borough Engr., 149 N. Avenue, Plainfield, N. J., or at office of Borough Clk.

Slate.—Kaucher Hodges & Co., Exchange Bldg., Memphis, Tenn.—Approx. 2600 sq. ft. slate.

Sprinkler Wagon.—Village of Lynbrook, N. Y., Frank H. Johnson, Clerk.—500 to 600 gal. capacity sprinkler wagon or cart for street work; second-hand; state price, condition, size and point of delivery.

Steam Shovel.—Broadfoot Iron Works, Inc., Wilmington, N. C.—In market for one 1-yd. steam shovel.

Steel Girders.—M. O. Powell & Bros., Wallace, N. C.—Prices on steel girders for brick stores.

Stone.—U. S. Engr. Office, 329 Custom House, New Orleans, La.—Bids until Aug. 15 for furnishing and delivering stone for Southwest Pass and South Pass; information on application.

Stone (Rip Rap).—Mississippi River Comm., 1st and 2nd Dists., Custom House, Memphis, Tenn.—Bids until Aug. 10 for furnishing and loading about 12,000 cu. yds. of rip rap stone on Government barges.

Stone Cutting Equipment.—See grinding and polishing mchy.

Structural Steel.—Board of Awards, Wm. F. Broening, Prest., Baltimore, Md.—Bids until Aug. 2 for structural steel for St. Paul St. bridge over Jones Falls and Pennsylvania R. R.; F. O. B. cars Calvert Sta.; plans, etc., on file.

Tanks (Oil Storage).—Automotive Repair & Machinery Co., (Mchy. Dealers), Jacksonville, Fla.—Prices on two 20,000 gal. capacity fuel oil storage tanks, new or second-hand.

Transmission Line.—Town of Hobgood, N. C., E. L. Bradley, Clk.—Bids until August 15 for furnishing a quantity of material for building 3 phase, 11000 volt electric transmission line from Scotland Neck to Hobgood, distance of 7 miles; also material for distribution of electricity in Hobgood; information on application.

Transmission Lines, etc.—Town of Black Creek, N. C., G. G. Smith, Clerk.—Bids until July 27 for constructing approx. 4 mi. of 6600 volt, 3 phase transmission line, 2 substations and local distribution system, including street lights; all materials except poles furnished by contractor; plans on file with Town Clerk.

Traveling Bag Materials.—W. S. Harwell, Troutman, N. C.—Names and addresses of mfrs. of hand traveling bag frames, also leather for same and leather lining.

Trucks (Standard Gage Car).—Pennsylvania Equipment Co., (Mchy. Dealers) Norwood, Pa.—In market for 8 sets of 80,000 capacity trucks, standard gauge and second hand for Alabama delivery.

Well Machine.—Iddins Machinery Co., (Machinery Dealers), Central and Jackson Sts., Knoxville, Tenn.—One No. 1 or No. 2 second-hand well machine on wheels without engine; Williams type preferred; A-1 shape.

Woodworking Machinery.—White Oak Corp., (Mchy. Dealers), Knoxville, Tenn.—Prices on flooring and matcher, either Fay & Egan or Sherman.

Veneer and Crate Making Machine.—H. L. Lawton, Lena, S. C.—Prices on Coe veneer machine suitable for making bean and lettuce crates, with back roll on same; 2 hamper machines, prefer Saranac; one veneer clipper; machines must be in good condition; also interested in other mchy. used for making crates.

Viaduct Construction.—City, J. N. Landers, Pur. Agt., Atlanta, Ga.—Bids until Aug. 10 for Spring St. viaduct; 1200 tons structural steel; 10,000 cu. yds. reinforced concrete; plans, etc. on file, and from Harrington, Howard and Ash, Const. Engrs., Kansas City, Mo., and Robert & Co., Inc., Associated Engrs., Atlanta, Ga.

Water Wells.—City of Floresville, Tex.—J. H. Brown, Mayor; Bids until July 20 for drilling deep water well; plans, etc., at office of Helland & Helland, 905 Maverick Bldg., San Antonio, Tex.

Water Works and Sewer Extension.—Town of Lincoln, N. C., R. H. Dellinger, Clerk.—Bids until Aug. 9 for furnishing materials and constructing extensions to water works and sewer system; approx. 25,000 ft. sewer mains and 9000 ft. of 6-in. cast iron water mains, and rebuilding 250,000 gal. reservoir; Carolina Engineering Co., Wilmington, N. C., Engrs.

Water Works and Sewer System.—Town of Taylorsville, N. C., C. C. Munday, Clerk.—Bids until Aug. 15 for furnishing materials and installing complete water works and sewer system; Carolina Engineering Co., Wilmington, N. C., Engrs.

Woodworking.—J. D. Parler, Beaufort, S. C.—Correspondence with mfrs. of agents of wood-cutting machine for cutting parquetry flooring.

Woodworking Equipment.—Wellborn & Wallis, Arkadelphia, Ark.—Prices on second hand mchy. as follows: circular saw table; mortiser machine; tenoning machine; sanding machine; ¼ doz. or more lumber dollies; self-feeding rip table.

Woodworking Equipment.—C. M. Wall & Son, Lexington, N. C.—In market for equipment for planing mill and box factory.

Financial News

New Financial Corporations.

Ga., Atlanta—Citizens & Southern Co., capital \$200,000, surplus \$150,000, incptd. with William Murphey, Prest., W. W. Banks, Vice-Prest., A. M. Glover, Asst., and W. H. Sexton, Secy.

Ky., Fort Thomas—Bank of Fort Thomas, capital \$25,000, incptd. with Shaler Berry, Prest., A. V. Stegeman, W. H. Wheat and W. C. Sanders.

Ky., Warsaw—The Farmers State Bank of Warsaw, capital \$25,000, and surplus \$2500. James P. Lewis approved the articles of incorporation.

Md., Germantown—Germantown Bank, Montgomery County, capital \$50,000, incptd. by Andrew H. Banker, Augustus R. Selby, William Waters, and others.

Mo., Cape Girardeau—Delta Bldg. & Loan Assn., capital \$50,000, directors, W. T. Dickey, H. E. Collier, J. F. Hughes, and others.

Mo., Kansas City—Globe Securities Co., capital \$100,000, incptd. by B. H. McGarvey, W. P. Manger, F. C. Harvey and B. W. Harwood.

N. C., Asheville—Prudential Investment Co., of Asheville, capital \$30,000, incptd. by Geo. A. Mercer, W. L. Jenkins, and W. T. Rowland.

N. C., Cherryville—The Mutual Building & Loan Assn., incptd. with Dr. R. J. Morrison, Prest.; David P. Dellinger, Secy. and Treas., and Geo. T. Jarrett, J. T. Allen, both Vice-Prest.

S. C., Charleston—The Central Bank, capital \$50,000, incptd. with J. Helper, Prest., C. F. Hottinger, vice-prest., and C. L. Lohr, cashier. (Lately noted.)

Tex., Buda—The Farmers National Bank of Buda, capital \$30,000, conversion of The Farmers State Bank of Buda. F. A. Jamison, Corres.

Tex., Cisco—The Commercial State Bank of Cisco, Eastland County, capital and the incptd. with B. K. Scott, Prest., thus consolidating; thus capital and surplus

W. Va., Morgantown—P

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hela Valley, capital \$200,000, and Farmers & Merchants Bank, capital \$150,000, will consolidate.

New Securities.

Ala., Gadsden—Improvement—City, H. C. Thomas, Clerk, sold \$80,000 6% bonds to Caldwell & Co., Nashville, at a premium of \$635, equal to \$100.79. (Lately noted.)

Ala., Montgomery—School—City, W. A. Gunter, Jr., Pres. of Board of Commrs., voted \$1,000,000 bonds. (Lately noted.)

Ark., England—Lonoke County Commrs. sold \$14,000 bonds.

Ark., England—School—City has sold \$200,000 school bonds.

Ark., Fayetteville—School—Fayetteville Board of Education voted \$45,000 bond issue.

Ark., Hoxie—Road—Lawrence County Commrs. sold \$100,000 bonds.

Ark., Little Rock—Drainage—Board of Commrs. of Cummins Drainage Dist., receives bids until Aug. 15, for \$100,000 6% bonds.

Ark., Parkin—Improvement—Cross County Commrs. sold \$225,000 bonds.

Ark., Warren—Sewer—Commrs. of Sewer District No. 1, have sold \$75,000 6% bonds to M. W. Elkins & Co., Little Rock, Ark.

Fla., Miami—Improvement—City Comsn. sold \$695,000 5½% bonds to R. M. Grant & Co., New York, and Caldwell & Co., Cincinnati, for \$697,988.50. (Lately noted.)

Fla., Plant City—School—City votes Aug. 15, on \$60,000 bond issue. Address Board of Public Instruction.

Fla., Port Tampa—Municipal Improvement—Mrs. R. E. Davis, Clk., Bd. of Bond Trustees, receives bids until Aug. 15, for \$25,000 6% bonds; \$1000 denomination.

Fla., St. Petersburg—Drainage, Incinerator, Bridge, Hospital and Railway—City, E. C. Garvin, Director of Works contemplates issuing \$1,652,000 bonds.

Fla., Tampa—Road, etc.—City votes Aug. 1 on \$3,000,000 bonds. Address The Mayor.

Fla., Tampa—School—Board of Public Instruction, Hillsborough County, J. E. Knight, Supt., receives bids until Aug. 17, for \$20,000 bonds of the Special Tax School Dist. No. 11; \$500 denomination.

Fla., Umatilla—Street, Paving, Sewer, etc.—City votes Aug. 5, on \$57,000 street, \$22,000 water and sewerage, and \$25,000 school bonds. Address The Mayor.

Fla., Vero—Improvement—City votes Aug. 18, on \$40,000 lighting plant bonds, and \$10,000 city buildings bonds. (Lately noted.)

Fla., Winter Park—School—City voted \$25,000 bonds issue. Address The Mayor.

Ga., Athens—Road, Bridge and Dormitory—Clarks County citizens voted \$200,000 bonds. Address Commrs. (Lately noted.)

Ky., Carrollton—Road—Carroll County, R. L. Hardin, Judge, sold \$75,000 5% bonds to Weil, Roth & Co., Cincinnati, for \$937.75 premium. (Lately noted.)

Ky., Louisville—Road—Jefferson County, Chas. A. McCulloch, Treas. sold \$36,000 5% bonds; Thos. W. Stricker Road, Charlestown Township, \$24,600, and the William Creamer Road, Union Township, \$8400, to Breed, Elliott & Harrison Indianapolis; R. D. Riley Road, Charlestown Township, \$4000; to Thos. D. Sherrin & Co., Indianapolis.

La., Abbeville—Road—Vermillion Parish Police Jury, votes Sept. 5 on \$50,000 bonds.

La., Alexandria—School—City sold \$183,000 6% bonds to L. E. French & Co., Alexandria.

La., Baton Rouge—Road—East Baton Rouge Citizens voted \$30,000 bonds issue.

La., Clinton—Road—East Feliciana Parish Police Jury votes Aug. 16 on \$150,000 bonds.

La., Edgard—Road—St. John the Baptist Police Jury contemplates issuing \$31,000 bonds.

La., Harrisonburg—Revenue—Police Jury of Catahoula Parish, J. K. McGee, Secy., receives bids until Aug. 7, for \$35,000 6% bonds.

La., Monroe—Drainage—Tensas Bayou Drainage District of East Carroll Parish, votes Aug. 15, for \$200,000 5% bonds. Address Board of Commrs.

La., Monroe—School—City Council receives bids until Aug. 15, for \$237,000 5¼% bonds; \$1000 denomination. Address P. A. Poag, Secy.

La., Monroe—Refunding—City Council receives bids until Aug. 15, for \$163,000 5¼% bonds; \$1000 denomination. Address P. A. Poag, Secy.

La., Monroe—School—Pioneer School Dist., No. 4, West Carroll parish voted \$20,000 bonds. Address School Commrs.

Md., Annapolis—Street and Sewer—City voted \$72,000 bond issue. Address The Mayor.

Md., Ellicott City—Road—Howard County Commrs., Michael J. Sullivan, Secy., sold \$300,000 4½% bonds to a syndicate composed of Baker, Watts & Co., Nelson, Cook & Co., and Townsend Scott & Son, all of Baltimore, for 102.79. (Lately noted.)

Md., Frederick—School—County Commrs. of Frederick County, receive bids until July 27, for \$120,000 4¾% bonds; \$1000 denomination.

Md., Hagerstown—Sewer—City, Daniel E. Downin, Tax Collector, receives bids until Aug. 8, for \$300,000 5% bonds; \$1000 denomination. (Lately noted.)

Miss., Biloxi—School—Suprs. of Jackson County vote Aug. 2, on \$15,000 bond issue. Address County Commrs.

Miss., Brookhaven—School—City voted \$8000 bonds. Address The Mayor.

Miss., Gulfport—School—Sellers Consolidated Line School District, Beat No. 4, Harrison County votes July 31, on \$10,000 bond issue. Address Commrs.

Miss., Hattiesburg—School—Board of Suprs. receives bids until July 22, for \$50,000 6% bonds. Herbert Gillis, Chancery Clk. (Lately noted.)

Miss., Marks—Drainage—Commrs. of Lost Lake Drainage District of Quitman County receives bids until Aug. 7, for \$50,000 bonds; \$1000 denomination. F. L. Lyon, Secy. of Board.

Miss., Moss Point—School—Mayor and Board of Aldermen will issue \$6000 school bonds on Aug. 1. R. G. Borden, Mayor.

Miss., Noxapater—School—Board of Aldermen and Mayor, H. B. Caperton, receives bids until Aug. 15, for \$12,000 bond issue.

Mo., Boonville—Road and Bridge—Cooper County, Rolla D. Pealer, Clk., receives bids until July 31, for \$125,000 5½% bonds. (Lately noted.)

Mo., Faucet—Consolidated School District No. 3, will sell \$35,000 bonds. Address Jas. W. Roach, Secy. of Board.

Mo., Mansfield—School—City voted \$11,000 bond issue. Address The Mayor.

Mo., Sarcoxie—Waterworks—City voted \$12,000 bonds. Address The Mayor.

Mo., Steele—School—School Dist. No. 35, William Franzmann, Clk., sold \$8000 6%

bonds of \$500 denomination to E. A. Gessler & Son, St. Louis, Mo., for \$99.

Mo., Seymour—Paving—City votes Aug. 7 on \$3500 bonds. Address The Mayor.

N. C., Morehead City—E. H. Gorham, will sell \$40,000 thirty year, 6% bonds.

N. C., Carthage—School—City voted \$65,000 bond issue. Address The Mayor.

N. C., East Spencer—School—Board of Aldermen receives bids until Aug. 1, for \$60,000 6% bonds; \$1000 denomination. Address F. A. Loflin, Town Clk.

N. C., Henderson—Street—City Council receives bids until Aug. 15, for \$200,000 5% bonds.

N. C., Hobgood—Electric—Town, E. L. Bradley, Clerk, receives bids until July 27, for \$10,000 5% bonds; \$500 denomination. (Lately noted.)

N. C., Kings Mountain—School—Town, Geo. E. Lovell, Clerk, sold \$50,000 bonds to W. K. Terry & Co., Cincinnati, for par plus a premium of \$1961. (Lately noted.)

N. C., Lumberton—Street—City will sell \$200,000 bonds. Address The Mayor.

N. C., Mocksville—Funding—Board of Commrs. receives bids until July 19, for \$42,000 6% bonds; \$1000 denomination. T. M. Hendrix, Town Clk.

N. C., Newton—School—Catawba County Commrs. voted \$1000,000 bond issue.

N. C., Southern Pines—School—P. P. Pelton, Secy. of School Committee, receives bids until Aug. 19 for \$50,000 bonds; \$1000 denomination.

N. C., Pembroke—School—Pembroke Public School Dist. Commrs. sold \$40,000 6% bonds of \$500 denomination to Prudden & Co., Toledo, O., for \$41,250.

N. C., Raeford—School—W. P. Hawfield, Supt. of Schools for Hoke County, receives bids until Aug. 1, for \$15,000 6% bonds;

N. C., Stantonsburg—Electric—Board of Commrs. receives bids until July 21, for \$20,000 6% bonds. Address S. H. Crocker, Mayor.

N. C., Tryon—School—School Dist., Nelson Jackson, Jr., Secy., sold \$65,000 6% bonds to Kaufman-Smith-Emert & Co., Inc., St. Louis, for par plus a premium of \$2068.95. (Lately noted.)

N. C., Washington—Funding—Board of Aldermen, J. R. Meekins, Clk., receives bids until July 31, for \$25,000 bonds; \$1000 denomination.

N. C., Winton—Electric—Town, P. S. Jordan, Clerk, receives bids until July 25, for \$12,000 6% bonds; \$500 denomination.

N. C., Yadkinville—School—City voted on \$30,000 bonds issue. Address The Mayor.

Okla., Sand Springs—Sewer—City votes Aug. 1 for \$90,000 bond issue. Address City Commrs.

S. C., Dillon—Water and Sewer—City sold \$8000 sewer and \$21,000 waterworks 5½% bonds to First National Bank, at a premium of \$301. (Lately noted.)

S. C., Gaffney—School—Golden Springs School Dist. No. 28, W. C. McArthur, Supt., sold \$15,000 bonds to C. M. Smith, Pres., Merchants & Farmers' National Bank, at par. (Lately noted.)

S. C., Hampton—School—Board of Trustees, Varnville School Dist. receives bids until Aug. 3, for \$20,000 6% bonds; \$1000 denomination.

S. C., Lake City—School—City sold \$65,000 6% bonds to Sidney Spitzer & Co., at \$2950 premium.

S. C., Lancaster—School—Geo. W. Williams, Secy. Board of Trustees, receives bids

until Aug. 7, for \$85,000 5% and \$75,000 6% bonds; \$1000 denomination.

S. C., Meggetts — School—Charleston County, D. Q. Towles, Chrmn. Board of School Trustees, receives bids until July 20, for \$43,000 6% bonds.

W. Va., Fairmont—Road—County Commrs., sold \$391,000 5½% bonds to Board of Public Works for par and interest.

S. C., Orangeburg—School—Trustees of School Dist. No. 26, Geo. V. Ziegler, Secy., sold \$70,000 5% bonds to The Southern Bank & Trust Co., at par plus a premium. (Lately noted.)

S. C., Rock Hill—School—Rock Hill School sold \$150,000 5½% bonds to the Peoples National Bank for \$2550 premium and accrued interest. (Lately noted.)

S. C., Sumter—Road and Bridge—Sumter County Commrs., sold \$500,000 5% bonds to The Trust Co., Atlanta, Ga., and D. C. Heyward & Co., for \$502,500. (Lately noted.)

Tenn., Clarksville—School—City Commrs. sold \$150,000 5% bonds to The First National Bank, for \$925 premium and printers cost of \$150.

Tenn., Columbia—School—Maury County School Committee sold \$29,000 bonds to J. W. Jakes & Co., Nashville, at 5%.

Tenn., Cowan—Municipal—J. R. Greene, Mayor, will receive bids until July 14, for \$20,000 6% bonds; \$1000 denomination.

Tenn., Huntington—School—The McKenzie Board of Education will vote on \$50,000 bond issue. Address School Trustees.

Tenn., LaFollette—School—City voted \$65,000 bond issue. Address The Mayor.

Tenn., Manchester—Road—Coffee County, John P. Buchanan, Chrmn. of Finance Committee, receives bids until July 24, for \$390,000 5% bonds.

Tenn., Murfreesboro—Sewer and Hospital—City votes Aug. 3 on \$75,000 bonds for hospital, and \$1,000,000 sewer bonds. Address The Mayor.

Tenn., Nashville—Street and General Improvement—S. H. McKay, City Clk., receives bids until July 21, for \$200,000 5% General Improvement, and \$250,000 6% street bonds; \$1000 denomination.

Tenn., Nashville — Viaduct — Davidson County Commrs., receives bids until July 21, for \$375,000 bonds. S. H. McKay, City Clk. (Lately noted.)

Tenn., Austin—The Austin Trust Co., 310-314 Littlefield Bldg., capital \$50,000, inceptd. with W. H. Polts, Prest., Walter Bremond, Jr., V-P., and John A. Gracy, Secy.-Treas.

Tenn., Austin—Road—J. A. Belger, County Auditor, Travis County, receives bids until July 28, for 75,000 bonds of Road District No. 4.

Tenn., Austin—School—City voted \$40,000 bonds issue. Address The Mayor. (Lately noted.)

Tenn., Breckenridge—Street—City, C. H. Fulwiler sold \$330,000 6% bonds to Womack Constr. Co. (Lately noted.)

Tenn., Brenham—School—Brenham Independent School Dist., Washington County recently sold \$100,000 bonds to Edwin M. Hobby & Co., Dallas.

Tenn., Brownfield—Electric—City will vote July 21, on \$16,000 6% bonds. Morgan L. Copeland, City Secy.

Tenn., Burkburnett—School — City voted \$150,000 bonds issue. Address The Mayor.

Tenn., Center—Road—Shelby County, Joaquin Dist., voted \$75,000 bonds; J. B. Burne, County Judge; T. H. Dillon, County Engr.

Tenn., Clarksville—Road Red River County

contemplates issuing \$1,000,000 bonds. Address County Commrs.

Tex., Clifton—School—Clifton Independent School Dist., Bosque County, has sold \$16,000 5½% bonds.

Tex., Colorado — School — Colorado Ind. School Dist. sold \$60,000 6% bonds to Geo. L. Simpson & Co., Dallas. (Lately noted.)

Tex., Dalhart—Courthouse—Dallam County Commrs. sold \$150,000 bonds to Sutherland Security Co., Kansas City, Mo., for \$8417.70 premium and accrued interest.

Tex., Fort Worth—Board of City Commrs., sold \$1,000,000 bonds to First National Co., St. Louis, at par and accrued interest.

Tex., Franklin—Road—Robertson County Commrs. Court, vote Aug. 1 on \$200,000 bonds.

Tex., Georgetown — School—City, F. L. Dimmilt, Mayor, receives bids for \$200,000 bonds.

Tex., Grayson—School—Golden Rub Independent School District, sold \$33,000 6% bonds to W. B. Munson of Dennison.

Tex., Hamlin—School—Hamlin Independent School District Commrs. sold \$25,000 bonds to Brown, Crummer & Co., Wichita.

Tex., Houston—Paving and Building—City Commrs., sold \$350,000 bonds to own city, Houston.

Tex., Lubbock—Water and Sewer—City votes July 18, on \$100,000 sewer and \$50,000 6% water bonds. Address Percy Spencer, Mayor.

Tex., Necono—Water—City voted \$10,000 6% bonds. Address The Mayor.

Tex., Nacogdoches—School—City sold \$50,000 bonds to Sterne Bros., Kansas City, Mo. (Lately noted.)

Tex., Palo Pinto—Road—Special Road Dist. No. 1, County Commrs. sold \$300,000 5½% bonds to Stix & Co., and the Stifel-Nicolaus Investment Co., St. Louis.

Tex., Port Arthur—School—Port Arthur Independent School Dist., L. B. Abbey, Secy., Board of Trustees will probably advertise within thirty days for bids, on \$675,000 5% bonds. (Lately noted.)

Tex., Port Arthur—School—City voted \$675,000 bond issue. Address The Mayor. (Lately noted.)

Tex., Richmond—Bridge—City voted \$100,000 bonds. Address The Mayor.

Tex., Thornton—School — Thornton Independent School District of Limestone County voted \$40,000 bonds. Address Prest. Board of Trustees.

Tex., Tulla—School—Union Hill Consolidated School District, Swisher County, voted \$11,000 bond issue. Address School Commrs.

Tex., Victoria—Bridge — Victoria County votes Aug. 19 on bonds. Address County Commrs.

Tex., Wichita Falls—School — Wichita Falls Independent School Dist., W. W. Brown, Secy., receives bids until July 24, for \$850,000 5% bonds; \$1000 denomination, dated July 1, 1922.

Tex., Wortham—School—City voted \$50,000 bond issue. Address District School Trustees.

Tex., Ysleta—School—Myra Winkler, County Supt., sold \$50,000 6% bonds to Crosby, McConnell & Co., for accrued interest and \$1000 premium. (Lately noted.)

Va., Clifton Forge—Electric—City has sold \$240,000 6% bonds at a premium of \$15,000.

Va., Lebanon—Jail and Court House—E. R. Combs, Russell County Clk., receives bids until July 29, for \$20,000 5½% bonds; \$1000 denomination.

Va., Newport News—School, Sewer and Municipal—City, J. L. Flecken, Clk., receives bids until July 31, for \$300,000 5% school, \$150,000 5% sewer, and \$100,000 municipal equipment bonds.

Va., Norfolk—Road and Bridge—Norfolk County sold \$110,000 5% bonds to The Guaranty Co., New York, for \$111,250.70. (Lately noted.)

Va., Norfolk—Road and Bridge—G. Tayloe Gwathmey, County Clk., receives bids until July 18, for \$110,000 5% bonds; \$1000 denomination.

Va., Portsmouth—Road and Bridge—Norfolk County Board of Suprvs., G. Tayloe Gwathmey, Clk. sold \$110,000 5% bonds of \$1000 denomination, to Guaranty Co., of New York, for \$101,137 per 100. (Lately noted.)

Va., Radford—Water and Electric—City Council, H. P. Anderson, City Clerk, receives bids until July 18, for \$225,000 bonds; \$1000 denomination. (Lately noted.)

Va., Richmond—Office Building—City sold State of West Virginia bonds to Scott & Stingfellow, for 93.63½ and accrued interest.

W. Va., Cameron—Water—City voted \$50,000 bond issue. Address District School

W. Va., Cameron—Water—City voted \$50,000 bond issue. Address The Mayor.

W. Va., Fairview—City voted \$13,000 bonds issue. Address The Mayor.

W. Va., Wayne—Road—Wayne County votes Aug. 8 on \$105,000 bonds. Address County Commrs.

W. Va., Welch—Road—McDowell County, W. W. Whyte, Clk., receives bids until Aug. 4 for \$150,000 5½ bonds.

W. Va., Weston—Road—Lewis County Commrs., sold \$100,000 Hacker's Creek District road bonds to Citizens Bank of Weston and the State Sinking fund commission.

Financial Notes.

Ala., Birmingham—Federated Bank and Trust Company, a new bank will occupy lot 108 110 North Twenty-first St.

Fla., Palmetto—The Manatee County State Bank, will increase its capital from \$16,000 to \$64,000.

Ky., Hazel—The Farmers Bank of Hazel's application has been approved and they will soon be doing business.

La., New Orleans—Interstate Trust & Banking Co., will open branch at 4623 Freret St., about Aug. 1.

Md., Baltimore—The General Finance and Security Company increased capital from 10,000 shares preferred, par \$25 a share and 10,000 shares common, no par value to 46,000 shares preferred, par \$25 a share and 40,000 shares common of no par value.

Md., Baltimore — Finance Company of America increased common stock from \$150,000 to \$250,000 and preferred stock from \$23,500 to \$25,000.

Md., Baltimore—Merchant's National Bank to open branch office known as Liberty Street office in the R. M. Sutton Bldg., Liberty and Lombard Sts.

Md., Baltimore—Commercial Credit Co., will increase capital to \$6,000,000.

Mo., Cameron — Cameron Building and Loan Assn., contemplates increasing capital from \$800,000 to \$1,000,000.

N. C., Roxboro—The Peoples Bank and the Bank of Roxboro, plan to consolidate; thus giving the new bank a capital and surplus of \$250,000.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., Independence—Jackson County, The Jackson County Savings and Loan Assn., has completed reorganization. Jacob L. Loid, Prest.; Alfred Hart, Garrett Ellison, Vice-Prests.; and H. C. Schwitzel, Treas., and others.

Okla., Hollis—The Farmers National Bank of Hollis, Okla., capital \$25,000, received new charter from Washington, D. C.

Okla., Keifer—R. E. E. Steigleder, founder of First State Bank of Jenks, made application for charter for bank at Keifer.

S. C., Barnwell—The Home Bank of Barnwell established branch bank at Dunbarton. Frank E. Trowbridge, Mgr.

S. C., Charleston—The Central Bank, to open here soon to do business; inceptd. by J. Hepler, John F. Riley, and Louis M. Shmel.

Tenn., Nashville—Central Bank and Trust Company increased its capital from \$100,000 to \$300,000.

Tex., Austin—Great Northern Life Insurance Co., Wausau, Wis., capital \$112,275, surplus \$139,076 received license to do business here.

Tex., Austin—Midcontinent Life Insurance Company, Oklahoma City, Okla., capital \$100,584, surplus \$101,832, received license to do business here.

Tex., Dallas—Guaranty Securities Company increased its capital from \$150,000 to \$300,000.

Va., Richmond—Inter-Ocean Casualty Company, Indiana, capital \$200,000, will do business in this city.

W. Va., Bluefield—Buckhannon Building and Loan Assn., increased capital \$150,000 to \$250,000.

W. Va., Bluefield—Commercial Bank of Bluefield increased capital from \$100,000 to \$150,000.

W. Va., Parkersburg—Wood County Bank increased capital from \$80,000 to \$200,000.

Trade Literature

Improved Asphalt Melting Kettle.

A new bulletin issued by the Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Pa., describes and illustrates the new Iroquois continuous roofing kettle now being produced by this company. Considerable interest has already been manifested in this piece of equipment because of the revolutionary ideas which it embodies, and the economies that it accomplishes, all of which demand the attention of roofers and others who employ asphalt melting kettles in their work. It is stated that in melting 1000 pounds of asphalt, only 98 pounds of fuel were used, or less than 10 pounds per 100 pounds of material.

Varied Advantages of Tuscaloosa, Ala.

The many industrial, commercial and other advantages of Tuscaloosa, Ala., are attractively and impressively set forth by the Tuscaloosa Chamber of Commerce in a liberally illustrated booklet entitled "Tuscaloosa, the City of Opportunity." Being situated in Alabama's great mineral region the picture on the cover page is appropriately a view of a blast furnace; within are other illustrations showing various industrial establishments, besides public buildings, churches, etc., and also handsome private residences. The annual report of the Chamber of Commerce, a separate publication, displays aggressive enterprise and advancement.

A New Electric Hoist.

The Standard Electric Hoist, patent applied for, is described and illustrated impressively and fully in Bulletin 5-H issued by the Standard Electric Crane & Hoist Co., 1420 Chestnut St., Philadelphia, Pa. In the production of this hoist, which is known as Type H, the company has established the minimum of head room possible, besides very high operating efficiency. Material and workmanship, it is stated, are of the highest grade.

Interesting to Road Builders.

The latest publication of the Blaw-Knox Company, Pittsburgh, Pa., is entitled "Profits on a Road Job are Regulated by the Time Saved." This pamphlet describes comprehensively and also illustrates the time and money saving characteristics of products of the company including central proportioning plants, steel storage bins, adjustable measuring batchers, road forms, truck turntables, subgrade testers, tarpaulin carriers, steel forms for roads, streets, and side walks, and all-steel portable handy houses.

Of Interest and Value to Home Builders.

"Beautiful Homes of Moderate Cost," are described and pictured in a finely prepared book of ninety-six pages with this quoted title and issued by the *Building Age* and the *Builders Journal*, 912 920 Broadway, New York. As announced upon the title page, it contains a selection of modern, artistic, practical designs by well-known architects, together with information on planning, financing, construction, decoration and furnishing. The illustrations show each house as it will look when completed and also the floor plans, the descriptive matter containing in each case an estimate of cost. The information and the advice embodied in this publication will be valuable to anyone contemplating the building of a home.

A New Light, Portable Belt Conveyor.

Bulletin 239 of the Jeffrey Manufacturing Company, Columbus, O., illustrates and describes the Jeffrey portable belt conveyor which has been built to meet the demand for a light, durable and inexpensive conveyor for loading and unloading coal, coke, clinders, sand, gravel, crushed stone and other bulk materials of the same general character, but it may also be used for handling bricks, tiles, small boxes, bags, etc. Two or more of these conveyors may be used together to extend storage piles, or one may be used as an extension conveyor to a storage pile in connection with a Jeffrey portable car unloader. This conveyor is operated by either electric or gasoline motor and its capacity ranges from 20 ton to 50 tons an hour according to material handled and methods employed to load the conveyor.

Large, Fine Catalogue Made in Florida.

A remarkable catalogue of more than 3700 pages has been issued by the Knight & Wall Company, Tampa, Florida, dealers in hardware, mill and phosphate supplies, paints and oils, sporting goods, and automobile accessories. This large volume, the pages of which measure 11 by 8½ inches, is fully illustrated. It was compiled, printed and made up in its entirety in the company's own establishment, being printed in a plant which they installed for it as well as for general advertising purposes. The manufacturers whose products are listed and pictured supplied the cuts for the illustrations but the entire cost of the volume was borne by the company. It is a loose-leaf catalogue and it is intended to keep it up-to-date by changing

ing leaves whenever lines of goods are changed, or if a sufficient number of items in any line should warrant a change. The book is copyrighted and the company give quite a prominent place to their private brand "Seminole," using an authentic picture of the famous chief Osceola, when the factory trade marks are not used. Everything which the company deals in is shown with prices in detail, so that customers can know exactly what they desire about any goods. All of the pictures are fine and the press work and the paper are of the highest character. The book is bound in heavy boards with black fabric cover and gilt lettering, the binding being secured by heavy bolts. On the back is a black and gilt metal plate bearing the company's name.

New Device for Heating and Other Plants.

The McAlear Manufacturing Co., 1901-7 S. Western Ave., Chicago, Ill., have published and are distributing a new 128 page catalog, No. 27, which illustrates many new devices, including an individual temperature control valve, specialties for all power plants, vacuum and va., or heating systems, oil refining and water works plants, plumbing systems and marine service. There are complete descriptions showing their application and use. The temperature control valve is self contained and can be applied to any radiator, old or new, without additional piping other than the supply and the return. Control is automatic.

Hardware Jobbers' Directory.

The 1922 edition of the American Hardware Jobbers' Directory has been issued by the publisher Edward G. Baltz, 107 Sixth St., Pittsburgh, Pa.. It has been completely revised in all of its departments and contains a vast amount of information. It is a directory of hardware jobbers of the United States and Canada, with details about their business. It gives the names and addresses of 533 jobbers of heavy hardware, 947 jobbers of automobile accessories, 641 department stores which sell hardware and the names of their buyers, 297 New York City export concerns handling hardware, a list of manufacturers' agents throughout the United States and a trade name index with nearly 7000 trade names listed. The book has 264 pages and sells for \$2.50. Its contents are arranged by states and towns and cities for ready reference.

Highways Green Book.

The Highways Green Book, Third Annual Edition, 1922, which is published by the American Automobile Association, 1108 Sixteenth St., N.W., Washington, D. C., is brimming with matters of interest to everyone, but especially to those individuals who have to do in any way with motor vehicles. The volume, which is composed of three parts, has more than 400 pages. Part I gives information relative to road improvements under Federal, state and local control. Part II is devoted to highway construction and maintenance. Part III contains articles of a miscellaneous nature, but all bearing upon good roads and their use. Among the many entertaining chapters are "Roads in Our Forests," "Road Building in National Parks," and "Highway Management and Financing in the Various States." The contributions of a practical nature include details of methods for building roads of different materials including concrete, asphalt, brick, gravel, etc. There are sundry illustrations pertinent to the text, which is well written and entertaining besides being instructive.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

All About the Fertilizer Trade.

The 1922 Year Book, issued by "Commercial Fertilizer," Walter W. Brown, publisher, 421-23-25 Hurt Building, Atlanta, Ga., is devoted exclusively to the interests of the fertilizer manufacturers and industries allied thereto. It contains a directory of fertilizer manufacturers, and of the allied trades, cotton seed oil mills, an association directory with officers and committees, names of officials in charge of state fertilizer laws, and a list of agricultural experiment stations. In addition to all this, the book, which has 166 pages and is substantially bound in red cloth, contains much valuable reading matter relating to the fertilizer industry, results of investigations by agricultural scientists, etc.

Heavy Powered Engine for Oil Fuels.

Charter Oil Engines, Type R, are fully described with handsome illustrations in Catalog No. 22 of the Charter Gas Engine Co., Sterling, Ill. These engines, it is stated, "have no faddish, freakish selling points. Every part of the engine is there in its present form because years of designing and manufacturing experience have proved it a necessary and therefore important factor in reliable and economical operation." The Type R engine has been made to meet a demand for a heavier powered engine of the horizontal single cylinder type, and capable of using kerosene and fuels of lower grade than gasoline. The book gives full particulars as to the engines and the several fuels which they can use. It is handsomely prepared.

Foreign Trade Convention Report.

The "Official Report of the Ninth Annual Foreign Trade Convention," held May 10, 11 and 12 at Philadelphia, has been issued in a large, strongly bound volume by the Secretary, O. K. Davis, India House, Hanover Square, New York. It contains a stenotype report of the proceedings, the discussions, the speeches at the nine group sessions, and the addresses at the general sessions, together with a list of the delegates present, the organizations and companies represented, and the personnel of the convention. Altogether there are more than 600 pages in the book which is finely printed and constitutes a valuable work of reference to everyone interested in foreign trade. Practically every matter of interest bearing upon the general subject was before the convention and this work tells of how it was disposed as well as narrating the expressions of the members. The price of the book is \$2.50.

The Great Value of Dynamite.

"Dynamite, the New Aladdin's Lamp," is the inscription on the cover page of a uniquely prepared pamphlet issued by the Hercules Powder Co., Wilmington, Del. The article which it contains was written by T. W. Baeceus, vice-president of the company, and shows how greatly dependent modern industry is upon dynamite; the great expansion of manufacturing activities would have been impossible without such an explosive. Dynamite was made available for mining in 1867, but it took some time to convince people of the safety and profit that would come by its use, yet from that time on the great progress attained in production of copper would not have been accomplished without dynamite. Many other instances are also cited to show its value. The booklet is printed on an old style grayish paper with quaint pictures of old-fashioned methods of transportation, ancient mining by means of fire, etc.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers or subscribers or not. We invite information of this character from readers in the North and West about their southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Would Represent Boiler Makers.

The High Point Machine Works, Inc., High Point, N. C., would like to correspond with Southern manufacturers of boilers with a view of representing them in that territory. Shelby E. Corbett is sales manager.

Sub-Office Established.

The field location of the Westinghouse Electric & Manufacturing Co., at Richmond, Va., has been changed to a sub-office so as to meet increased activities there. The new office at Richmond is at Room 503, Virginia Railway & Power Co., building, at Seventh and Franklin Streets. W. O. Peale, formerly field representative, has charge.

Engineering Office Opened.

Charles T. Mann, engineer, located July 1 in the Massachusetts Trust Building, 200 Devonshire St., Boston, Mass., his organization being such as to do engineering work for all kinds of industries, including textile mills and other manufacturing plants, storage and terminal facilities, water power and steam power developments, examinations and reports.

Moved Into Larger Quarters.

Owing to the increase in their business the Iron and Steel Products Co., Pittsburgh, Pa., have been compelled to seek larger quarters so that their clientele may be better served. They have removed from 230 Fifth Avenue to 421 Wood Street, occupying Suite 510 in the Citizens Savings Bank Building at the corner of Wood and Diamond Streets. They handle iron and steel, copper and brass, babbitt and solder, brake linings and packings.

Large Mill Property to Be Sold.

The valuable mill and factory property known as Laurel Mills and situated at Laurel, Md., will be sold on the premises at 3 P. M., standard time on Tuesday, August 22, according to the assignee's announcement which appears elsewhere in this issue. The property includes 200 acres of land, water rights and water power plant, two mill buildings, and other structures, three storehouses, etc., besides 44 dwellings, 28 of which are of brick and 8 of stone, the rest being frame or partly frame. Further particulars will be found in the advertisement.

Large Plant to Be Built.

Horace T. Potts & Co., exporters, merchants, and importers of iron and steel products, 316, 318 and 320 North Third St., Philadelphia Pa., have broken ground on a lot of ten acres fronting 1030 feet on East Erie Ave., and 1042 feet on the Pennsylvania Railroad and extending from D St. to F St., prior to erecting new warehouses, an office building, a garage, a machine shop, etc., etc., to cost altogether more than \$500,000. The office building will have 5400 feet of floor space and will be equipped in the most modern and convenient manner for the comfort of employees. One warehouse, 192 by 120 feet will be used for storing cold finished steels and other materials liable to rust; dry air will be forced into the building. Another structure, 369x75 feet, will handle heavy and long sections up to 45 feet long. Electric cranes, saws, shears and

punches, automatic scales, interplant railway, trucks, etc., will be provided, besides railroad siding accommodation for 10 cars with unloading facilities. A large fleet of auto-trucks will be maintained for deliveries, even to distant points. One part of the ground reserved for the future expansion of their plant, the firm propose to develop tennis courts, baseball field, football field, etc. for their employees' recreation. Numerous other evidences of consideration for the welfare of the working forces are also noted.

Construction Company Reorganized.

The Eggar Construction Company, St. Petersburg, Florida, has reorganized for the purpose of carrying on a general construction business and it is now prepared to do all types of construction and building work, including reinforced concrete, structural iron, masonry, etc., for dwellings, commercial buildings and other structures. The company desires to receive catalogs, samples and prices from manufacturers of various materials and products used in buildings, and also from dealers in building supplies.

Powdered Coal Plants.

The Raymond Brothers Engineering Company, a subsidiary of the Raymond Bros. Impact Pulverizer Co., 1315-1325 North Branch St., Chicago, Ill., will specialize in designing and constructing powdered coal plants for the use of pulverized fuel in metallurgical furnaces in steel, iron, copper, zinc and other industries. They will also design and erect any kind of plant for treating non-metallic minerals by mining, crushing, grinding or refining. The address of the Engineering Company is 1306 North Branch St. nearby the parent concern.

A New Brown Dye Developed.

A new dye, to be known as Pontachrome Brown SW, has been developed and placed on the market by E. I. du Pont de Nemours & Co., of Wilmington, Del., who state that this is a chrome brown with a purplish overcast, possessing good covering power and very good level dyeing properties. According to the announcement it may be applied by either the top-chrome or the chromate method, and it is used extensively on woolen goods, either as a self-shade for producing full, rich browns or as a base for producing a pleasing range of dark brown shades. It is especially appropriate for suitings containing unresisted silk effects, as these may be left white when the color is applied by the silk white process.

To Manufacture Radio Apparatus.

The Wagner Electric Manufacturing Co., of St. Louis, has acquired a substantial interest in the Collin B. Kennedy Co., of San Francisco, and will turn over to the latter its plant No. 2, a six-story building having about 60,000 square feet of manufacturing space and equipped with machinery adapted to manufacturing the Kennedy radio apparatus. This will greatly increase the facilities of the Kennedy Company to meet the demand of its increasing business and also give it a central location in addition to its Pacific Coast plant. The Kennedy Company will continue to operate its San Francisco plant at full capacity to meet requirements of trade in that section while the St. Louis

plant will take care of business in the territory adjacent and related to that city. W. A. Layman is president of the Wagner Company and C. B. Kennedy is president of the Kennedy Company. Dr. Leonard F. Fuller has charge of engineering and technical control for the latter.

American Machinery Installed Abroad.

W. H. Kent, vice president and general manager of the Weller Manufacturing Co., 1820-1856 N. Koster Ave., Chicago, left there June 28 to make an extended trip through European countries. Investigation will be made as to future trade and inspection will be made of Weller equipment installed in a number of large plants. At the present time there is a number of projects contemplated in which elevating, conveying and power transmitting machinery will be important factors.

Managerial Changes.

The McClave-Brooks Company, manufacturers of McClave combustion systems, have placed their Pittsburgh office 1623 Oliver Building, under the charge of George Blair, Jr., who remains district manager of the Philadelphia office. Mr. Blair has promoted Alfred F. Duemler, former sales engineer of the Philadelphia office, to be assistant manager of the Pittsburgh office. W. H. Goodrich, manager of the company's Syracuse office, has resigned and H. L. Hergett, who was manager of the Pittsburgh office, succeeds him.

Industrial Advantages Offered.

The town of Roxboro, N. C., has recently organized a chamber of commerce with M. R. Long as president and the following directors: A. M. Burns, W. R. Hambrick, M. W. Satterfield, E. E. Bradsher, R. L. Harris. Roxboro is in the heart of the original Piedmont section and markets some of the finest tobacco. It is a very desirable place for manufacturing enterprises and has all modern conveniences and improvements. The business men have begun their organization on a large scale and expect to obtain a capable and efficient secretary.

Ice and Refrigerating Plants.

During June, the York Manufacturing Co., York, Pa., made over 70 installations of their ice and refrigerating machinery, including 24 in the South; the latter comprising equipment placed at Dillsboro, Durham (2) and Winston-Salem, N. C.; Johnson City, Tenn.; Memphis, Tenn.; Lepanto, Ark.; Abbeville, S. C.; Shelby, N. C.; Central City, Ky.; Chesapeake Beach, Md.; Statesboro, Ga.; Hopewell, Va.; Baton Rouge, La.; Denison, Tex.; Waldo and Plant City, Fla.; Ferguson, Mo.; Nashville, Tenn.; St. Louis, Mo.; Rome, Ga.; Plano, Tex.; Williamson, N. C. and Hyattsville, Md.

Plant Running Day and Night.

The N. & G. Taylor Company, of Philadelphia, Pa., manufacturers of tin andterne plate, report a high degree of activity at their Cumberland, (Md.), plant involving capacity operation of all the principal departments. All of their open hearth furnaces are in operation, with the bar mill running day and night turns. The tin house has been given additional capacity to keep pace with the heavy increase in the demand for the company's high-grade roofing plate which has been greatly stimulated by the present building activity. Plans are being prepared for the construction of a larger power plant that will include the most improved boilers, automatic stokers, coal handling machinery, etc.

In Fine, New Quarters.

Brooke, Smith & French, Inc., of Detroit, Mich., have occupied and are now located in their new building, a handsome and imposing edifice devoted entirely to their advertising business. It is centrally situated and in addition to the executive offices, adequate and commodious facilities are provided for specialized departments, numbering seven. It is one of the most completely equipped plants of its kind in the country. The business was established in 1907.

Boiler Reports by Traveling Men.

The Heine Boiler Company, of St. Louis, Mo., have recently taken steps to further systematize the methods by which Heine boilers in use are followed up. This consists in arranging the itineraries of field men in such a way that they can conveniently visit and report upon a considerable number of these installations, giving them to understand that a specific report must be made on each installation in accord with certain desired information. Advice is given whenever the representative feels qualified to present it; otherwise questions are referred to the engineering department of the company.

Atlanta Office Opened.

The Hibernia Securities Company, Inc., of New Orleans, R. S. Hecht, president, has opened an office at 426 Candler Building, Atlanta, Ga., under the charge of J. W. Speas, formerly assistant manager of the Atlanta office of the National City Company of New York. The Hibernia Securities Co. is the investment department of the Hibernia Bank and Trust Co., and the Atlanta office will be equipped to aid customers in that city and vicinity as to bonds, commercial paper, bank acceptances and other securities. The office will have direct private wire connections with the office of the company at 44 Pine St., New York, as well as with the main office at New Orleans.

Electric Railroad Apparatus for France.

Within a few weeks after the shipment of a record-breaking order of apparatus for railroad electrification in Chile, another enormous train-load of electric railroad apparatus left the East Pittsburgh, (Pa.), plant of the Westinghouse Electric & Manufacturing Co., for France. This shipment, consisting of transformers and lighting arresters, was part of an order from the French Mid Railways that totaled well over \$1,000,000. The apparatus in this shipment weighed approximately 800 tons and required 32 railroad cars to transport it over the Pennsylvania Railroad to New York to be shipped thence to Bordeaux. It is stated that this order covers material for the first railroad outside of the United States to adopt 150,000 volts for its main transmission. Power for operating these railways, which are in the South of France and north of the Pyrenees Mountains, will be developed by six hydro-electric stations.

Book Reviews.

Production and Fair Profits. By James Turner. Manchester, England: Sherratt & Hughes. 1922.

The subtitle of this book—"The Key to Industrial Peace"—sufficiently indicates the spirit animating the author in his composition. It is asserted that the work evolves a system of trading which commands square dealing between capital and labor.

But it must not be thought that it is a general endorsement of labor's point of view. Witness this quotation: "Every demand made by organized labor has always been presented with an exhibition of force, and force can never hope to be a complete success. . . . From its inception, the whole record of aggressive unionism is an attempt by workers in one trade to obtain more for themselves out of the workers in other trades, and yet they talk about unity of labor." At the beginning of the book the author, after a brief chapter which is a consideration of human nature, proceeds with other chapters under the respective heads, "Law and Order," "Ownership of Land and Taxation," "Finance," "Capital and Labor," "Education," and "Insurance." He observes that his arguments and demonstrations in respect to the various sections of the community are directed against the existing system and not against individuals. What he says is full of interest. He began to work at eight years of age in a Lancashire cotton mill and claims to have materially helped to build up the cotton industry. His desire is "to find cause and remedy for the social disorder and inequality of opportunity which has existed and become a menace to civilization."

The Story of Drugs. By Henry C. Fuller. New York: The Century Co. 1922.

The subtitle of this book properly describes it as a popular exposition of the origin, preparation and commercial importance of drugs. It has been written in a fascinating style that is non-technical, for the general reader and it tells about where the elements of medicines are found and of how the medicines themselves are made. There are chapters on alcohol, patent medicines, drug farms, cosmetics, vitamins, serums, and so forth. One of the most absorbing chapters in the work is that on farming for medicine. The author makes suggestions about a sensible medicine chest, tells of what is and what is not "dope", discusses hay fever and also legislation that affects the drug market and the trade. Mr. Fuller is of the Institute of Industrial Research and is well qualified for the task that he has accomplished in the preparation of this work, which constitutes one of the Century series of books of useful science.

Pulling Together. By John T. Broderick, with introduction by Charles P. Steinmetz, Ph. D. Schenectady, N. Y. Robson & Adee. 1922. \$1.

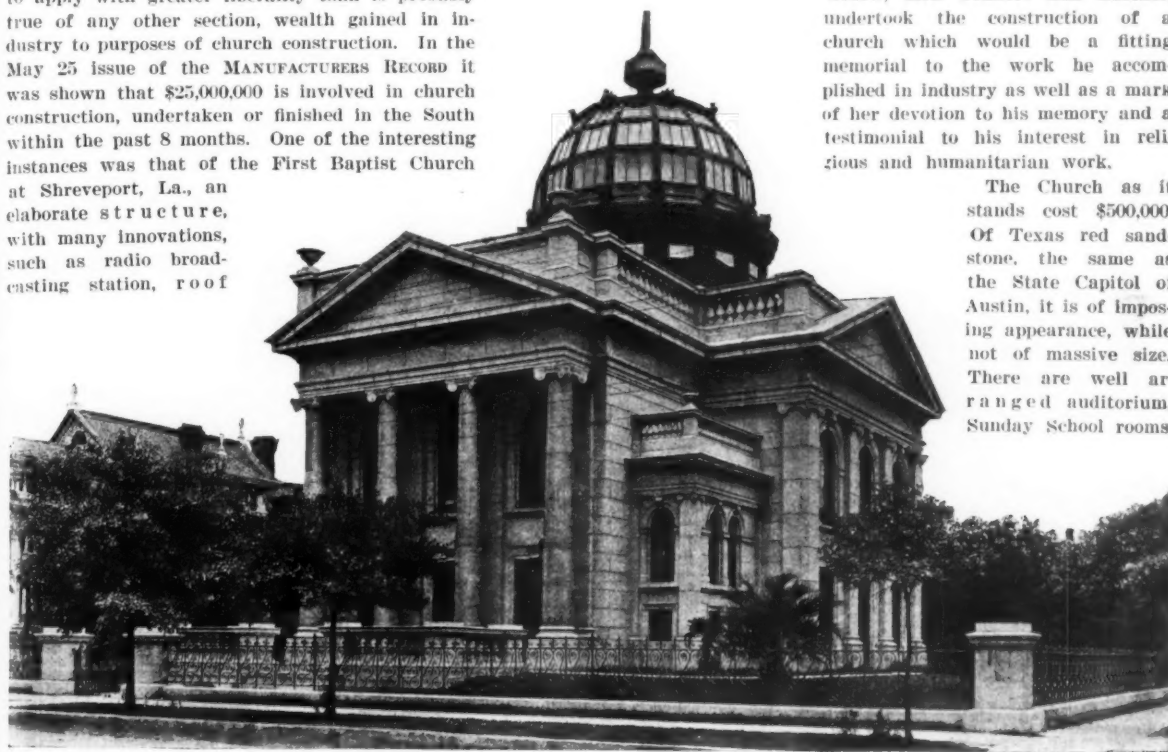
This is a new work dealing in a frank, novel and interesting manner with the subject of human relations in industry. The author has had extensive business experience, beginning 35 years ago as confidential secretary in the executive department of Marshall Field & Co., of Chicago, and he has already written extensively upon economic questions, including standardization and the cost of living. The chapter titles afford a general idea of his latest effort, some of them being: "Clans, Cliques and Classes," "The Underlying Weakness," "Collective Bargaining," "How Good Will is Won," "Plan of Employee Representation," "A Court of Industry," "Our Friends the Foremen," "A Proprietary Interest," "Recognition of Unionism," "Need of Strikes Outgrown," etc., there are altogether twenty chapters. Says Mr. Steinmetz: "Mr. Broderick gives a clear exposition and discussion of a plan which in one form or other is rapidly growing in favor and in many instances where it has been honestly tried has led to increased co-operation." The book is attractively bound in dark red cloth.

CONSECRATION OF SOUTHERN WEALTH TO CHURCH BUILDING

Conspicuous through its magnificence in every detail of construction, finish and furnishing, the Lutchter Memorial Presbyterian Church at Orange, Tex., is nevertheless only illustrative of a widespread tendency throughout the South to apply with greater liberality than is probably true of any other section, wealth gained in industry to purposes of church construction. In the May 25 issue of the MANUFACTURERS RECORD it was shown that \$25,000,000 is involved in church construction, undertaken or finished in the South within the past 8 months. One of the interesting instances was that of the First Baptist Church at Shreveport, La., an elaborate structure, with many innovations, such as radio broadcasting station, roof

wealth production which made possible the Lutchter Memorial Church. After the death of H. J. Lutchter, founder of the Lutchter & Moore Lumber Company, and builder of one of the greatest enterprises of that line in the South, his widow, Mrs. Frances Ann Lutchter, undertook the construction of a church which would be a fitting memorial to the work he accomplished in industry as well as a mark of her devotion to his memory and a testimonial to his interest in religious and humanitarian work.

The Church as it stands cost \$500,000. Of Texas red sandstone, the same as the State Capitol of Austin, it is of imposing appearance, while not of massive size. There are well arranged auditorium, Sunday School rooms,



LUTCHTER MEMORIAL PRESBYTERIAN CHURCH AT ORANGE, TEXAS.

garden for summer services, gymnasium, nursery, etc., besides an auditorium with 3000 seating capacity. This new building was made possible by the oil development in the Shreveport field. The First Baptist Church at Shreveport was in very modest circumstances financially before the oil development. Now it is in a condition of affluency, as the beautiful church building would indicate, and as the enormous increase in its money contributions to mission and other church activities clearly demonstrates.

At Orange, the lumber industry was the basis of great

etc., and the interior woodwork is all of solid mahogany. There are Tiffany stained glass windows throughout, and all decorations are of dignified, appropriate design. There is a heating system for winter and a cooling system for summer, and in the front pews are instruments for sound magnifying, to be used by those hard of hearing. An exceptionally fine organ was also installed, so that altogether, the Lutchter Memorial Church is declared to be one of the most magnificent structures of its size and class to be found anywhere in the country.

Currency Based on Government Bonds Suggested.

Beaumont, Texas, July 6.—[Special.]—If the government will turn half of the twenty billion it owes into an asset instead of a liability, there will be plenty of money available at a low rate of interest, is the opinion expressed by W. P. H. McFaddin, prominent rice and cattle man and capitalist of this city.

"No one will deny," said Mr. McFaddin, "that in a land of plenty we are having hard times. That should not be. Statistics show that we have in the United States to do business with 10 cents in cash and 90 cents worth of credit. I contend that this is not enough money to properly handle the voluminous business of the United States. Then we have the question, 'What is the remedy?'"

"I would suggest that Congress pass a law allowing the banks of the United States authority to invest one-half of their capital stock in United States bonds—Liberty bonds being preferred because they bear 4 per cent interest.

"To illustrate: We will take the First National Bank

of Beaumont with a capital stock of \$400,000. It would be permitted to buy \$200,000 of Liberty bonds. Take these bonds to the United States Treasurer, having first had Congress pass a law authorizing same, deposit the \$200,000 in bonds and draw down \$200,000 in currency. The First National would bring that money to the business establishments of Beaumont and could loan it out at 5 or 6 per cent.

"I claim that it would be a great thing for the banking establishments of this country for the reason that they could get 4 or 4½ per cent on the bonds deposited in the United States Treasury, enabling them to loan this money at, say, 5 to 6 per cent.

"It would enhance the money lending power of the banks by one-half of their capital stock, and as the United States owes over two billion dollars, we could use at least ten billion dollars of currency against it. I contend that the bonds put up with the government would be just as good security as if we had put up gold bullion or gold dollars. This

would not prevent these bonds being retired when they became due.

"It would be a fine investment for the banks and would give the people more money with which to do business. It would prevent the money lending interests from closing down on the money we now have and stop the business of the country. Added to the 4 or 4½ per cent received on the bonds, banks could loan money at 5 to 6 per cent and make a good profit. Today we are paying from 7 to 10 per cent. No business will stand 10 per cent long and survive. This would be good for the banks, it would be good for the people, it would put more money in circulation, which we need, and would not hurt the United States one bit. In fact, instead of the debt being a detriment it would be a blessing and business could be run more on a cash basis than ever before.

"Railroads alone in this country require as much money as the expense of running the governments of both France and England. Therefore, when we compare our country with theirs, it can be seen that we should have more money than they to do business.

"Some say that this would not be sound money, but I contend that it would be just as good and sound as any money in the world. The United States Government can always pay its bonds when they become due, or have them extended to such a time as revenues would permit of taking them up. It is preposterous to say that government bonds selling at a premium are not guilt-edged security.

"Banks are now allowed to purchase in this way Panama bonds which bear only 2 per cent. When it is taken into consideration that it takes 2 per cent to do business, there is no money in this. But if 4 per cent bonds were deposited, drawing in currency dollar for dollar, they would get 4 per cent from the bonds and from 5 to 6 per cent on the cur-

rency issued to them. When money is tight, our property values go down. When money is plentiful, property values go up."

Credit for "Old Spanish Trail" Highway Plan.

Pascagoula, Miss., July 20.

Editor Manufacturers Record:

I see by despatches from Washington, that the War Department has declared the Old Spanish Trail a military necessity. The propaganda for making the Old Spanish Trail a military highway was first made public in an article in the MANUFACTURERS RECORD which I wrote in the Spring of 1915. The idea and the article were afterwards exploited by Southern papers and road associations without credit being given to the MANUFACTURERS RECORD—(which was the first journal to adopt and promote this scheme), or to the writer for suggesting it.

At the January, 1921, meeting of the Old Spanish Trail Association in Gulfport I delivered an address entitled:—"The Old Spanish Trail a Military Necessity."

If you will look over your files for 1915 you will find where you published a letter from me stating that the Mobile Register had been stealing our thunder giving no credit to the MANUFACTURERS RECORD. At the meeting of the Old Spanish Trail in Gulfport I did not mention the fact that the plan of a military highway had originated with you as I did not want to start an unnecessary row—but I am willing to do so now. Had it not been for the MANUFACTURERS RECORD my article probably would not have been written—and the plan would never have been given to the public.

CHAS. E. CHIDSEY.

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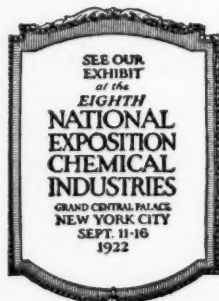
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A Ship Subsidy Should Assure Low Freight Rates for Exporters.

The C. S. Bell Co.,
Manufacturers.

Hillsboro, Ohio, July 17.

Editor Manufacturers Record:

We believe the matter of a ship subsidy and its uses so far as American manufacturers and exporters are concerned are fully explained from our point of view. As we have repeatedly stated—we are strongly in favor of a ship subsidy for the purpose of building up an American merchant marine, but this subsidy will fall far short of any practical results unless American manufacturers are able to place their goods in foreign markets in competition with Europe.

As we view the situation the subsidy bill should especially provide that it shall be the duty of the Shipping Board, where a complaint is made of an unreasonable or a non-competitive rate by subsidized steamers, to investigate the situation and if it is necessary in order to enable American manufacturers to reach their clients, particularly in Mexico, Central and South America, to make a reduced rate, the rate should be so ordered and the loss, if any, accruing to the steamship company handling the business can be made good by the subsidy already provided.

The nominal subsidy can be increased 100 per cent at the option of the Shipping Board as provided in the bill. If the subsidy bill in its present form is railroaded through Congress it will re-act fatally on the party proposing it as American manufacturers will not consent to be taxed for a subsidy and then have rates made to prevent their reaching their clients as above outlined.

The Shipping Board seems to have lost sight entirely of those who are to pay the taxes and who should be benefited by a ship subsidy as an American merchant marine would be of but little value if ships sailed without cargo.

An illustration of how the shipping rates are manipulated is shown recently where the Shipping Board stated a line for Colombia and the United Fruit Company, resenting this interference of what they deemed their exclusive rights, cut the rate from \$16.50 to \$3.00. Of course, the minute competition is driven out rates will go back to the old figure or even higher.

Subsidy ship lines should be under control of the Shipping Board as to rates so as to protect American manufacturers and exporters.

We shall be very much interested in knowing how you handle the situation through your editorial columns for once you get the situation clearly in hand you will certainly state the facts clearly and concisely as you did on the subject of prohibition and in fact on all subjects of general concern and of vital interest to the whole country.

C. E. BELL,
President.

Mother Tongue of the Foreign White Population of the United States.

The Department of Commerce announces that, according to the census of 1920, the number of persons included in the foreign white stock of the United States whose mother tongue was reported as English or Celtic (including Irish, Scotch, Welsh, and Manx, practically all of whom were English speaking) decreased from 9,930,861 in 1910 to 9,720,365 in 1920, the rate of decrease being 2 per cent, and the number of white persons of German mother tongue declined during the same period from 8,646,402 to 8,164,109, a decrease of 5.6 per cent; while for all other important linguistic stocks increases are shown, some of them at very high rates. In particular, the group reporting Italian as the mother tongue

increased from 2,135,393 to 3,365,864, or at the rate of 57.6 per cent; the Polish increased from 1,684,108 to 2,436,895, or at the rate of 44.7 per cent; the "Yiddish and Hebrew," from 1,664,142 to 2,043,613, or at the rate of 22.8 per cent; while the number of persons reporting the Russian language as their mother tongue grew from 91,341 to 731,949, the rate of increase being more than 700 per cent.

By "foreign white stock" is meant the total foreign-born white population plus the native white population having one or both parents foreign born. The term "mother tongue" refers to the language of customary speech in the homes of the immigrants before coming to this country. Foreign-born persons are classified according to their own mother tongue, while natives of foreign or mixed parentage are classified according to the mother tongue of the foreign parents.

The accompanying table shows, for 1920 and 1910, the distribution of the foreign white stock in the United States according to mother tongue.

Mother tongue.	FOREIGN WHITE STOCK IN THE UNITED STATES, BY MOTHER TONGUE: 1920 AND 1910.			
	Total foreign white stock.		Per cent	
	1920.	1910.	1920.	1910.
All mother tongues	36,398,958	32,243,382	100.0	100.0
English and Celtic...	9,729,365	9,930,861	26.7	30.8
Germanic.....	8,622,498	9,000,139	23.7	27.9
Scandinavian.....	2,972,796	2,781,402	8.2	8.6
Latin and Greek....	6,036,003	4,185,932	16.6	13.0
Slavic and Lettic....	5,270,581	3,194,647	14.5	9.9
Unclassified.....	2,956,321	2,261,563	8.1	7.0
Unknown or mixed mother tongue (b)	811,394	888,838	2.2	2.8
English and Celtic..	9,729,365	9,930,861	26.7	30.8
Germanic:				
German.....	8,164,109	8,646,402	22.4	26.8
Dutch and Frisian	370,499	311,015	1.0	1.0
Flemish.....	87,890	42,722	0.2	0.1
Scandinavian:				
Swedish.....	1,486,062	1,394,410	4.1	4.3
Norwegian.....	1,020,788	976,827	2.8	3.0
Danish.....	466,946	410,165	1.3	1.3
Latin and Greek:				
Italian.....	3,365,864	2,135,393	9.2	6.6
French.....	1,290,110	1,288,897	3.5	4.0
Spanish.....	850,848	444,132	2.3	1.4
Portuguese.....	215,728	139,221	0.6	0.4
Rumanian.....	91,683	49,588	0.3	0.2
Greek.....	221,770	128,701	0.6	0.4
Slavic and Lettic:				
Polish.....	2,436,895	1,684,108	6.7	5.2
Czech.....	622,796	531,193	1.7	1.6
Slovak.....	619,866	281,707	1.7	0.9
Russian.....	731,949	91,341	2.0	0.3
Ruthenian.....	95,458	34,837	0.3	0.1
Slovenian.....	208,552	181,594	0.6	0.6
Serbo-Croatian:				
Croatian.....	140,559	92,260	0.4	0.3
Bosnian.....	3,119	5,372	(a)	(a)
Serbian.....	52,208	26,483	0.1	0.1
Montenegrin....	4,535	3,949	(a)	(a)
Bulgarian.....	14,420	19,183	(a)	(a)
Slavic, not specified	3,624	34,799	(a)	(a)
Lithuanian and Lettish.....	336,600	207,821	0.9	0.6
Unclassified:				
Yiddish and Hebrew	2,043,613	1,664,142	5.6	5.2
Magyar.....	473,538	315,283	1.3	1.0
Finnish.....	265,472	197,515	0.7	0.6
Armenian.....	52,840	29,690	0.1	0.1
Syrian and Arabic	104,139	46,495	0.3	0.1
Turkish.....	8,505	5,310	(a)	(a)
Albanian.....	6,426	2,358	(a)	(a)
All other.....	1,788	770	(a)	(a)
Unknown.....	20,336	297,918	0.1	0.9
Of mixed mother tongue (b)....	791,058	590,920	2.2	1.8

(a) Less than one-tenth of 1 per cent.

(b) The term "of mixed mother tongue" refers to natives whose foreign-born parents were reported as of different mother tongues.

Washing tests of Georgia clays have been completed at Columbus, O., by the Bureau of Mines. Samples of bauxitic and refractory clays have been calcined to cone 13, ground to pass 10 mesh and mixed with 40 per cent raw clay. Samples of commercial size bricks have been completed by the dry process. When made up into a standard pottery body this clay showed none of the objectional specks common to unwashed Georgia clays and was of a good color.

Making an Asset of Difficulties

A great opportunity is now before American business—the opportunity of making a big and permanent asset out of the very difficulties of the present situation. The conviction that this can be done is extremely heartening. It is enough to put a new thrill of life and activity into every form of industry.

The curtailment of Demand for the products of industry brought us face to face with the question, hitherto ignored, as to what causes demand. Then it was discovered that Demand was a created thing, and that more of it could be created in almost any direction—if enough of the right effort were applied.

Chief among the means of creating Demand is now seen to be Advertising. Wherever you find a big demand for any product you find, in-

variably, that the demand for that product has been stimulated by human effort, and chiefly through advertising.

It is obvious to any one who will think it through that the present demand for any product could be substantially lessened if it were possible to eliminate all forms of advertising—including pictures, displays, and word of mouth, as well as printed and painted messages—and just let that product depend on the natural or unstimulated demand.

And it is equally obvious that a demand for any worthy product can be created and stimulated by means of Advertising.

This fact puts within the hands of the business man the means of creating his own market. That would be the biggest asset he could have—an assured market for all he could produce.

[Published by the MANUFACTURERS RECORD in co-operation with The American Association of Advertising Agencies]

PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS

Bids close August 15, 1922.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., July 17, 1922.—SEALED PROPOSALS will be opened in this office at 3 p. m., August 15, 1922, for furnishing and installing complete, an Electric Motor Driven Turbine Pump in the U. S. Post Office at St. Louis, Mo. Specification may be obtained at this office or at the office of the Custodian, St. Louis, Mo., in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close August 12, 1922.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., July 18, 1922.—SEALED PROPOSALS will be opened in this office at 3 p. m., August 12, 1922, for furnishing and installing a new oil-burning apparatus, etc., at the U. S. Post Office and Court House, Houston, Tex., in accordance with specification and drawing, copies of which may be had at this office or at the office of the Custodian, Houston, Tex., in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close August 7, 1922.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., July 12, 1922.—SEALED PROPOSALS will be received at this office until 10 A. M., August 7, 1922, and then opened, for furnishing and installing Storm Enclosure at the U. S. Post Office and Court House at Augusta, Ga., in accordance with the specification and the drawing mentioned therein, copies of which may be had at this office or at the office of the Custodian, Augusta, Ga., in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

\$40,000 6% Bonds

Morehead City, N. C.
FOR SALE.—Forty Thousand Dollars (\$40,000). 30-year, 6% bonds: Town of Morehead City, interest payable semi-annually authorized by special account of Legislature with authority to make public or private sale. For information write E. H. Gorham.

Bids close August 1, 1922.

PROPOSALS FOR CEMENT.—Office Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals for furnishing and delivering about 7000 sacks of Portland Cement will be received at this office until 11 a. m., August 1, 1922, and then opened. Further information on application.

Bids close August 9, 1922.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., July 12, 1922.—SEALED PROPOSALS will be opened in this office at 3 p. m., August 9, 1922, for the installation of one electric elevator in the East wing of main hospital building, U. S. Veterans' Hospital, Norfolk, Va., Tanner's Creek Site. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close August 2, 1922.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 19, 1922.—SEALED PROPOSALS will be opened in this office at 3 p. m., August 2, 1922, for furnishing and installing fly screens for cottages Nos. 1, 4, and 5, and Mess Hall and Administration Building of the United States Public Health Service Hospital No. 42, at Perryville, Md., specifications may be obtained at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 31, 1922.

PROPOSALS FOR STEEL HULL.—U. S. Engineer Office, Montgomery, Ala.—Sealed proposals will be received here until 11 A. M., July 31, 1922, and then opened, for furnishing one steel hull for dipper dredge Upatol. Further information on application.

Bids close August 21, 1922.

U. S. Engineer Office, Baltimore, Md.—Sealed proposals will be received here until 1 P. M., daylight saving time, August 21, 1922, and then opened for dredging in Baltimore Harbor and Channels. Further information on application.

Bids close August 15, 1922.

\$50,000 6% Road and Bridge Bonds

NOTICE OF SALE OF BONDS

Fort Pierce, Fla.
Sealed bids will be received up to two o'clock p. m., August 15, 1922, for purchase of \$50,000 Six Per Cent Coupon Bonds of Special Road and Bridge District No. 2, St. Lucie County, Florida. Bonds maturing one bond on July 1 of each of the years 1923, 1924, 1925 and 1926; two bonds on July 1 of each of the years 1927, 1928 and 1929; three bonds on July 1 of each of the years 1930 to 1941, inclusive, and four bonds on July 1 of the year 1942.

Write to P. C. Eldred, Clerk, Fort Pierce, Florida, for full information.

Bids close August 7, 1922.

\$20,000 Water and Light Bonds

Sealed proposals will be received until August 7, 1922, for \$20,000 Water and Light Improvement Bonds for the city of Buena Vista, Ga., being 20 bonds of \$500 each, maturing one bond per year for the first 20 years, and 10 bonds for \$1000 each, maturing one bond per year for the last 10 years, all bonds to mature in 30 years and to bear five per cent interest payable semi-annually.

These bonds have been properly validated by order of court. The right to reject any and all bids reserved.

For further information write,
J. R. STOKES, Recorder,
T. B. RAINEY, Mayor,
Buena Vista, Ga.

Bids close August 3, 1922.

\$20,000 6% School Bonds

Hampton, S. C.
Bids will be received at the office of the undersigned by the Trustees of Varnville School District, Hampton County, S. C., until Thursday, August 3, 1922, not later than 12 o'clock noon, for the purchase of the following bonds: \$20,000 Varnville School District Bonds, payable \$1000 in 1924, and \$1000 each year thereafter until 1943, when \$2000 will be payable. Bonds dated July 1, 1922, and are in denomination of \$1000 each. Interest coupons payable either annually or semi-annually at purchaser's option. Rate of interest not to exceed six per cent. Principal and interest payable at place to be selected by purchaser. Each bid must be accompanied by certified check or cash deposit, made payable to Chairman, Board of Trustees, Varnville School District, for \$200.

Trustees reserve the right to reject any or all bids, or to sell all or any part of issue. Any additional information will be furnished upon application to the undersigned.

RANDOLPH MURDAUGH,
Attorney.

Bids close August 14, 1922.

\$750,000 6% Bonds

Dothan, Ala.
The City of Dothan will receive sealed bids at the Council Chamber in the City of Dothan for the sale of bonds issued by the City of Dothan, on the first day of April, 1921. In the aggregate sum of seven hundred and fifty thousand (\$750,000) dollars, in denominations of one thousand (\$1000) dollars, each, to bear interest at the rate of six per centum per annum, payable semi-annually on the first day of October and April of each year, and to become due and payable 20 years from the date of their issuance, to raise money and provide means for the purpose of providing and constructing a water works plant to pump, provide and deliver water in and to the City of Dothan, for the uses of said city and the inhabitants thereof, and to generate and transmit electricity for such purposes at or near what is known as Chalkers Bluff, on the Choctawhatchee River, in Geneva County, Alabama and transmission lines therefrom into the said City of Dothan, Ala., to be known as "Water Works Plant Bond Issue" until 8:00 o'clock P. M., August 14, 1922.

Each bid shall be accompanied by a certified or New York Exchange check in the sum of 5% of the total sum of seven hundred and fifty thousand (\$750,000) dollars, as a guarantee that the purchaser will carry out his contract for the purchase of said bonds above described.

The right is reserved to reject any and all bids.

R. W. LISEBY, Clerk.

Bids close August 7, 1922.

\$160,000 School Bonds

Lancaster, S. C.
The Board of Trustees of Lancaster School District, South Carolina, will receive up to 12 o'clock M., on August 7, 1922, at The Bank of Lancaster, Lancaster, S. C., sealed bids on \$160,000 Lancaster School District Bonds, in two issues as follows:

\$85,000 in Bonds of \$1000.00, payable 25 years from date thereof, bearing five per cent interest, coupons payable semi-annually January 1st and July 1st, at Hanover National Bank, New York. Trustees authorized to purchase and retire bonds at par from annual Sinking Fund provided, or to deposit Sinking Fund in Bank if unable to purchase bonds at par. Validated by Legislative Act. Bonds dated July 1st, 1921, and cannot be sold under par.

\$75,000 in Bonds of \$1000.00, payable 20 years from date thereof, bearing not exceeding six per cent interest coupons, payable semi-annually, January 1st and July 1st, at Hanover National Bank, New York. Trustees authorized to purchase and retire bonds with any available Sinking Fund after five years. Bonds dated July 1st, 1921. Validated by Legislative Act. Bids on this issue will be received on basis of five per cent, five and one-half per cent and six per cent.

Bonds of both issues are payable at Hanover National Bank, New York.

Bids will be received on the two issues separately and as a whole, and sold separately or as a whole, at the option of Trustees or Cashier's Check for two per cent of the par value of bonds required with bid as guarantee of good faith, and as forfeit in the event the depositor is the successful bidder and does not comply with the terms and conditions of his bid. The Board reserves the right to reject any and all bids.

LEROY SPRINGS,
Chairman School Board.
GEO. W. WILLIAMS,
Secretary School Board.

Bids close August 7, 1922.

Bridges

THE HIGHWAY COMMISSION FOR CATAWBA COUNTY

Malden, N. C.
The Catawba County Highway Commission will receive bids until Monday, 2 P. M., August 7, 1922, for 16x80 ft. steel span for Henry River Bridge near the Burke County Line, also for bridge at Brookford across Henry River, and bridge across the Catawba at Oxford's Ford. For further information and particulars apply to W. B. Kiker, Civil Engineer, Newton, N. C.

G. E. MAUNEY,
Secy. to the Board.

Bids close August 15, 1922.

Miami River Bridge

AT SOUTHWEST SECOND AVENUE

Miami, Fla.
Sealed proposals to be filed with the City Manager, will be received by the City of Miami, Florida, up to nine o'clock A. M., August 15, 1922, at the regular meeting of the Commission for the construction of a bridge over the Miami River at Southwest Second Avenue. The bridge is a double leaf steel bascule span with concrete piers and embankment approaches; clear span 115 ft., total length of improvement about 500 ft.; one 30 ft. roadway, two 6 ft. walks. Approximate structural metal and machinery 170 tons; concrete 2700 cubic yards, reinforcing steel 26 tons.

The work will be let to one Contractor on a unit price contract. With each bid there shall be a certified check for not less than ten per cent of the gross bid, made payable to the City of Miami, to be forfeited as liquidated damages by any bidder who is awarded the contract, who fails to promptly execute the contract and bond. Checks of unsuccessful bidders will be returned upon execution of contract, or sooner, upon action of the Commission of the City of Miami. The contract will be awarded to the lowest responsible bidder, but the City Manager shall have the power to reject all bids and advertise again.

Plans and specifications may be examined in the office of Chas. W. Murray, Director of Public Service and Welfare, Miami, Fla., and in the office of Harrington, Howard and Ash, Consulting Engineers, Kansas City Missouri. Copies may be secured from the Consulting Engineers by depositing \$25.00. Such copies shall be returned and a refund of \$15.00 made.

F. H. WHARTON, City Manager.

Bids close August 15, 1922.

Road and Bridge Construction

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia at its office in Charleston, West Virginia until 10 o'clock A. M. on the 15th day of August, 1922, and at that time and place publicly opened and read for the construction of the following bridges and section of state road.

ROAD

Project 3126—Brooke county—0.2 mile grading and paving with Water Bound Macadam. Certified check for \$700.

BRIDGES

Witcher Bridge No. 772, Project 116, Kanawha county, over Witchers Creek. 65 ft. steel span superstructure. Certified check for \$500.

Cedar Grove Bridge No. 773, Project 3179, Kanawha county, over Kelly's Creek. 85 ft. steel span superstructure, concrete substructure. Separate proposals will be received for superstructure, certified check for \$500 and substructure certified check for \$500.

Hugheson Bridge No. 783, Project 3135-B Kanawha county, over Hughes Creek. 80 ft. steel span superstructure only, certified check for \$500.

Hartland Bridge No. 805, Clay County, over Elk River. Concrete substructure only. Certified check for \$1100.

Bartow Bridge No. 829, Project 3185, Pocahontas county, over East Fork of Greenbrier River. Concrete arch, 2-56 ft. spans. Certified check for \$500.

Poca Bridge No. 619, Putnam county, over Pocatalco River, 180 ft. span, steel truss superstructure, Ashlar masonry substructure. Separate proposals will be received for substructure, certified check for \$1400 and superstructure, certified check for \$600.

East Keystone Bridge No. 727, Project 3096, McDowell county, over Elkhorn Creek. 65 ft. span steel with 5 ft. sidewalk, Ashlar masonry substructure. Substructure and superstructure to be let in one contract. Certified check for \$500.

Clothier Bridge No. 810, Project 3059, Logan county, over Spruce Fork. 130 ft. steel span superstructure. Ashlar masonry substructure. Substructure to be let on separate contract. Certified check for \$500.

Sharpless Bridge No. 826, Project 3059, Logan county, over Spruce Fork. 130 ft. steel span superstructure. Ashlar masonry substructure. Substructure to be let on separate contract. Certified check for \$500.

Note: Superstructures for Bridges No. 810 and No. 826 to be let in one contract. Certified check \$800.

Seng Camp Bridge No. 830, Project 3059, Logan county, over Seng Camp Creek. Concrete through girder, 45 ft. span, Ashlar Masonry substructure. Certified check for \$500.

Allen Creek Bridge No. 730, Project 3062, Wyoming county, over Guyandotte River. Concrete arch, 2-75 ft. spans. Certified check for \$1000.

Cross Creek Bridge No. 819, Project 3126, Brooke county, over Cross Creek. concrete arch, 90-ft. span. Certified check for \$1200.

Granny Creek Bridge No. 807, Project 3110, Braxton county, over Granny creek. Concrete deck girder, 50 ft. span, concrete substructure, pile foundation. Certified check for \$750.

Junction Bridge No. 802, Project 3011-B, Hampshire County, over Mill Crk. Concrete slab, 6-20 ft. spans, concrete substructure. Certified check for \$500.

Reynolds' Gap Bridge No. 808, Project 3013 Hardy county, over Mud Lick Run. Concrete thru girder, 2-40 ft. spans, concrete substructure. Certified check for \$500.

Judy Bridge No. 809, Project 3014, Pendleton county, over N. Mill Creek. Concrete through girder, 2-40 ft. spans, concrete substructure. Certified check for \$500.

Reeds Creek Bridge No. 828, Project 3105, Pendleton county, over Reeds Creek. Concrete slab, 2-22 ft. spans, concrete substructure. Certified check for \$500.

Proposals will be received only upon State Standard Forms in accordance with plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates may be obtained from the Office of the State Road Commission at Charleston, West Virginia.

Each proposal must be accompanied by a certified check in the amount noted for each proposal.

The right is reserved to reject any and all proposals.

State Road Commission

E. B. CARSKADON, Sec'y.

Bids close August 10, 1922.

Spring Street Viaduct.

Atlanta, Ga.

Sealed proposals to be addressed to and filed with J. N. Landers, Purchasing Agent, City of Atlanta, will be received up to 2 p. m., Thursday, August 10, 1922, for the construction of the Spring Street Viaduct. The work will be let under two contracts to one or two bidders. Contract No. 1 will be for the manufacture and delivery of superstructure metal work; Contract No. 2, for the erection of the superstructure metal work and for the construction complete of the viaduct, approaches and incidental work. The viaduct and approaches include about 1700 lin. ft. of elevated viaduct structures in part of structural steel and in part of reinforced concrete, and about 600 lin. ft. of approaches between the retaining walls, together with regrading and repavement of certain roadways, and alterations to certain incidentals, structures and attendant construction. About 1200 tons structural steel, 10,000 cubic yards reinforced concrete.

Each bid shall be accompanied by certified check payable to J. N. Landers, Purchasing Agent, in an amount not less than 2% of the gross amount of the bid, to be forfeited as liquidated damages by any bidder who is awarded a contract and who fails promptly to execute contract and bond. Certified checks will be returned to bidders upon execution of contract and bond or sooner upon action of the Viaduct Committee.

Contracts will be awarded to the lowest responsible and competent bidders, but the City reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of J. N. Landers, Purchasing Agent, and in the offices of Harrington, Howard & Ash, Kansas City, and of Robert & Co., Inc., Atlanta, Associated Consulting Engineers. Copies of the plans and specifications may be secured from either of these engineers' offices by depositing \$35.00. These plans and specifications shall be returned and \$20.00 will be refunded.

A bond satisfactory to the City of Atlanta, equal to the total gross amount of the bid will be required.

J. N. LANDERS,
Purchasing Agent,
City of Atlanta,
(2nd floor City Hall.)

Bids close August 10, 1922.

Road Improvement**SUMTER COUNTY PERMANENT ROAD COMMISSION**

Sumter, S. C.

Notice is hereby given that sealed proposals will be received by the Sumter County Permanent Road Commission at the City Council Chamber in Sumter, S. C. until 10.00 o'clock A. M., August 10th, 1922, for the grading of drainage structures and several types of Hard Surface Pavement on the following roads:—

Sumter-Manning Road.....6.1 miles
Shiloh Road.....7.6 miles
Camden Road Sec.....4.2 miles

Bid on each road must be accompanied by bidders bond or certified check for \$2000. If the work is bid on as a whole, a check for \$4000 must be submitted.

Plans for the work may be seen at the Office of the Engineers, Lee, Pennell & Murray, Sumter, S. C. Specification and proposal forms may be obtained from the Engineers upon request accompanied by a check for \$5.00 which sum will be refunded if same are returned within thirty days after receipt of bids.

The right is reserved to reject any or all bids and to waive all technicalities.
Sumter County Permanent Road Commn.,
Sumter, S. C.

Lee, Pennell & Murray, Engineers,
Sumter, S. C.

Bids close August 22, 1922.

Grading, Drainage and Macadamizing

Elizabethton, Tenn., July 21, 1922.

Sealed bids will be received by The Carter Co. Road Commission on August 22, 1922, for the grading, drainage and macadamizing approx. two (2) miles of road.

The right is reserved to reject any or all bids.

E. H. LITTLE, Chairman
C. H. HYDER, Com.
GEO. T. YOUNG, Com.

Bids close August 8, 1922.

Concrete and Gravel Roads**STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS**

Baltimore, Md.

SEALED PROPOSALS for building three sections of State Highway, as follows:

CHARLES CO., Contract CH-20—One section of State Highway from end of Contract CH-17 toward Lyons Corner, a distance of 2.0 miles. (Gravel.)
ST. MARYS CO., Contract SM-18—One section of State Highway from Harpers Corner toward Laurel Grove, a distance of 2.5 miles. (Gravel.)

DORCHESTER CO., Contract D-26—One section of State Highway from end of Contract D-24 toward Lloyds, a distance of 1.0 mile. (Concrete.)

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Md., until 12 M., Standard Time, on the 8th day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By ORDER of the State Roads Commission, this 20th day of July, 1922.

J. N. MACKALL,
Chairman.
L. H. STEUART,
Secretary.

Bids close August 1, 1922.

Concrete and Gravel Roads**STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS**

Baltimore, Md.

SEALED PROPOSALS for building eight sections of State Highway, as follows:

Frederick County, Cont. F-52. One section of State Highway along the Buckeystown Pike from end of Cont. F-31 Extd. to Furnace Branch Bridge, a distance of 1.35 miles. (Concrete.)
Howard County, Cont. Ho-23. One section of State Highway from the end of Cont. 453 at Benson Branch to the Triadelphia Pike, a distance of 1.5 miles. (Concrete.)

Harford County, Cont. H-29. One section of State Highway from Whiteford toward Dublin, a distance of 1.0 miles. (Concrete.)
Charles County, Cont. Ch-23. One section of State Highway from Mason Springs to Marbury, a distance of 2.6 miles. (Gravel.)

Cecil County, Cont. Ce-41. One section of State Highway from Calvert toward Fair Hill, for a distance of 2.0 miles. (Concrete.)

Queen Anne's County, Cont. Q-22. One section of State Highway from Sudlersville toward Millington, for a distance of 2.0 miles. (Concrete.)

Dorchester County, Cont. D-25. One section of State Highway from Eldorado toward Federalsburg, for a distance of 1.0 miles. (Concrete.)

Wicomico County, Cont. Wi-21. One section of State Highway from Salisbury toward Snow Hill, for a distance of 2.0 miles. (Concrete.)

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Md., until 12 M., Standard Time, on the 1st day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission, this 13th day of July, 1922.

L. H. STEUART, J. N. MACKALL,
Secretary. Chairman.

Bids close August 3, 1922.

Street Paving

Lenoir, N. C.

Proposals will be received by the City of Lenoir, N. C., until 2 o'clock P. M., Thursday, August 3rd, 1922, for grading and paving certain streets with either sheet asphalt, bitulithic, asphaltic concrete, asphalt macadam, or cement concrete.

The work will embrace approximately 35,000 square yards of pavement, 26,000 linear feet of combined concrete curb and gutter, 12,000 square yards of cement sidewalks, considerable storm drain, and accessories.

Plans will be on file and may be seen at the office of the City Clerk, Lenoir, N. C., or at the office of The Ludlow Engineers, Winston-Salem, N. C., after July 15th, 1922. After that date copies of the Specifications, Bid Blank, and Contract may be obtained from the Engineers or City Clerk. For the convenience of prospective bidders the Engineers will furnish copies of the plans upon application accompanied by a check for ten (\$10) dollars to cover the cost, or separate prints at one (\$1) dollar each.

Each bid must be accompanied by a certified check in the sum of \$10,000, or five per cent (5%) of the amount of partial bids on the work.

Proposals will be opened publicly with the usual rights reserved.

Plans and supervision by THE LUDLOW ENGINEERS, Winston-Salem, N. C.

V. D. GUIRE, Mayor,
F. H. COFFEY, Chm. St. Com.

Bids close August 15, 1922.

Street Paving

Gainesville, Florida.

Bids will be received by the City Council of the City of Gainesville, Florida, until eight P. M., August 15, 1922, for paving certain streets in the City of Gainesville.

The proposed work includes approximately 85,000 square yards of paving with brick, concrete, sheet asphalt, bituminous macadam, or other material.

Specifications may be obtained from G. H. Cairns, City Manager. Certified check for Five Per Cent of amount of bid to accompany bid. The right is reserved to reject any or all bids. G. H. Cairns, City Manager.

Bids close August 17, 1922.

Street Improvements

Henderson, N. C.

Sealed proposals will be received for the materials and labor in connection with the improvements of certain streets of the City of Henderson, N. C., by the Mayor and Board of Commissioners of said City until three o'clock P. M., of August seventeenth, when they will be opened and publicly read.

The specifications cover sheet asphalt and bituminous concrete pavements, and in addition to the above, proposals will be considered upon Warrenite-bitulithic and other special forms of pavement. Work contemplated includes grading, furnishing, placing and constructing concrete curb and gutters and the installation of storm drains.

Bids are asked upon approximately 60,000 square yards of pavement. Pavement will be constructed from one or more of the above classes as may be selected by the City, and the entire work to be done will be awarded under one or more contracts as the City may elect.

Plans and specifications may be examined at the office of the City Clerk or at the office of the Engineer. Specifications will be ready for delivery on or about July 20, and prospective bidders may obtain same by addressing direct to the Engineer at Henderson, N. C., and making a deposit of \$10.00, which deposit will be refunded upon the return of the specifications in good condition.

Each proposal must be accompanied by a certified check in the sum of five (5%) per cent of the amount bid as evidence of good faith upon the part of the bidder.

The City reserves the right to reject any or all bids or accept any which may seem to be to the best interest of the City of Henderson.

A. A. BUNN, Mayor.
S. B. BURWELL, Clerk.
R. D. GLADDING, Engineer.

Bids close August 15, 1922.

Hydro-Electric Project

Dothan, Ala.

Sealed proposals will be received by the Mayor and City Council of the City of Dothan, Ala., until 2 o'clock, P. M., Tuesday, August 15, 1922, for constructing a Hydro-Electric Project with appurtenances, and furnishing materials and equipment, at High Bluff, on the Choctawhatchee River, about eight (8) miles from Hartford, Ala., in sections 9 and 4 of township 2N, Range 23E, Geneva County, Alabama. The work consists of the construction of an earth dam, a concrete spillway, abutments, and power house, and the furnishing and placing of machinery. The principal approximate quantities involved are the following:

51,000 cu. yds. of excavation.
380,000 cu. yds. of embankment.
18,500 cu. yds. of concrete of different classes.
1,900,000 pounds of reinforcing steel.
354,000 pounds of structural steel work.

Turbines, generators, transformers, and auxiliary power house equipment for a present installation of approximately 3000 BHP capacity in two units.

A transmission line twenty-one and one-half (21½) miles long at 44,000 volts pressure.

Plans and specifications are on file at the office of the City Clerk at Dothan, Ala., and at the office of the Ludlow Engineers, at Winston-Salem, N. C., where they may be examined by prospective bidders.

Copies of the plans covering the construction details of this project and two copies of the specifications attached to the form of proposal and contract will be furnished by The Ludlow Engineers, Winston-Salem, N. C., upon application by prospective bidders accompanied by a check for twenty-five (\$25.00) dollars to cover the cost, or, separate prints, and extra copies of specifications and form of proposal, etc., at one (\$1.00) dollar each.

Each bid must be accompanied by a certified check for approximately five (5%) per cent of the bid.

Proposals will be received at the City Hall, Dothan, Ala., and opened publicly with the right reserved to accept any bid or to reject any or all bids as the best interests of the City may appear.

Plans and supervision by THE LUDLOW ENGINEERS, Inc., Winston-Salem, N. C.

E. O. JONES, Mayor.
R. W. LISENDY, City Clerk.

Bids close Noon Aug. 10, 1922.

Sunday School Building

St. Petersburg, Fla.

Sealed proposals will be received by Henry H. Dupont, Architect, St. Petersburg, Fla., at noon Aug. 10, 1922, for the erection and completion of a Sunday School Bldg., for the Congregational Church, at St. Petersburg, Fla.

Plans and specifications may be seen and obtained upon application to the Architect upon the deposit of Ten Dollars (\$10.00) which will be refunded upon the return of the plans.

Each bid must be accompanied by a certified check for two per cent of the amount of the bid to ensure the execution of the contract.

Successful bidders will be required to furnish a surety bond in an acceptable surety Company to the amount of the contract price.

The right is reserved to reject any or all bids.

HENRY H. DUPONT, Arch.

Bids close August 15, 1922.

Electric Power Transmission Line

Hobgood, N. C.

Sealed proposals, addressed to the Mayor and Board of Commissioners of the Town of Hobgood, N. C., will be received at the Mayor's office at Hobgood, up until 12 o'clock noon, on Tuesday, August 15th, 1922, for furnishing a quantity of material for building a 3-phase, 11,000 volt electric line from Scotland Neck to Hobgood, a distance of about 7 miles; also material for the distribution of electricity in Hobgood. Proposal forms with a list of the material and further information may be obtained from the Town Clerk at Hobgood, N. C. Proposals will be opened in the presence of those interested, but the Board reserves the right to reject any and all bids.

By order of the Board.
(Signed) E. L. BRADLEY,
Clerk.

Bids close August 2, 1922.

Sewer Construction

NOTICE TO CONTRACTORS

South Bound Brook, N. J.

Sealed proposals for the construction of 8-inch sanitary sewers and appurtenances in Maple Avenue, Catherine Street, Lawrence Street, Canal Road and Edgewood Terrace, in the Borough of South Bound Brook will be received by the Mayor and Council of the Borough of South Bound Brook at the Council rooms in the Fire House, on Main St., at 8 o'clock, p. m. on Tuesday, August 2, 1922. (9 o'clock daylight saving time) on August 2, 1922.

There are approximately 2565 feet of 8-inch sewer and 9 manholes to be constructed.

Proposals must be made on the forms provided and be accompanied by a certified check for 10% of the amount of bid made payable to the order of the Mayor and Council of the Borough of South Bound Brook.

Plans and specifications are on file and may be examined and information and blank forms obtained during business hours at the office of the Borough Engineer, H. C. Van Emburgh, No. 149 North Ave., Plainfield, N. J., or at the office of the Borough Clerk, South Bound Brook, N. J.

A bond with approved surety in the sum of full amount of bid will be required of the successful bidder.

THOMAS L. WALTERS,
Borough Clerk.

Bids close August 15, 1922.

Inlet

Fort Lauderdale, Fla.

Notice is hereby given that the Board of County Commissioners, Broward County, Florida, will receive bids until 11.00 A. M. on Tuesday, August 15, 1922, for the construction of an inlet from New River Sound to the Atlantic Ocean, near Ft. Lauderdale, as per plans and specifications on file in the Clerk's Office, Courthouse Bldg., Ft. Lauderdale, Fla.

Such work shall be let in two contracts, being as follows:

a) The dredging of 81,000 cubic yards more or less of earth; and the dredging of 5000 cubic yards more or less of rock;

b) The furnishing and placing of 6200 cubic yards more or less of riprap and jetty hearing and of 2500 tons more or less of jetty capping, all in riprap and jetty construction.

Separate bids will be received and separate contracts let for each of the two classes of work mentioned. Copy of plans and specifications may be secured from the Clerk upon payment of \$1.00 to cover cost of printing the same.

Each bid shall be accompanied by a certified check in the amount of 3% of the bid, guaranteeing that the bidder will make contract and bond within ten days of notice of award.

Bond on each contract will be required in the sum of 50% of the amount bid. Address all bids to the Board of County Commissioners, in care of Frank A. Bryan, Clerk, Ft. Lauderdale, Fla.

The Board reserves the right to reject any and all bids.

By order of the Board.
H. G. WHEELER, Chairman.

Attest:
FRANK A. BRYAN, Clerk.
GEO. B. HILLS COMPANY, Engineers,
Jacksonville, Florida.
Dated July 10, 1922.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS WATER POWERS, MISCELLANEOUS PROPERTIES,

COAL LANDS AND MINES

FOR SALE—Going coal mines—coal, oil and gas lands—timber tracts. Reports made on same anywhere. E. H. Morris, Box 518, Charleston, W. Va.

FOR SALE—Seventeen hundred acres fee coal land on the main line of the Norfolk and Western Railway Company. Non-union field. Four workable seams (steam, domestic and bi-product coals). Valuable timber on property. Railroad sidings granted. If interested write Drawer G. Williamson, West Virginia.

FOR SALE—1173.72 acres coal in Buchanan Co., Va. Four seams. A rare opportunity to buy coal land in proven territory. For description write Box 262, Graham, Va.

FOR SALE

Operating Elkhorn Mine—Located on S. V. & E. R. R., Pike County, Ky. Leasehold—well equipped. For particulars address B. N. Ford, Box 871, Cincinnati, Ohio.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 25c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

MANGANESE PROPERTY

FOR SALE—145 acres, high grade Manganese property, 47% Manganese, one mile Southern R. R. Ample timber for all purposes. A bargain. Phil Grasty, Danville, Va.

IRON ORE

FOR SALE—Several hundred million tons of very rich red and brown iron ores. Close to river and rail. C. G. Samuel, Athens, Tenn.

TIMBER

We have more than 800 Million Feet Cypress and 200 Million Feet Long Leaf Yellow Pine Timber; intersected by railway. Particulars to interested parties. Nelson Realty Company, Kissimmee, Fla.

FOR SALE—40,000,000 feet virgin hardwood timber, 4500 acres in Swain County, N. C., within 1½ miles railroad. Finest quality big soft yellow poplar, mountain oaks, basswood, ash, cherry, maple, chestnut and hemlock. In two rich coves, all down grade to mill site. Native labor plentiful. Unexcelled as an investment. Savage Bros., Murphy, N. C.

TIMBER LAND RED GUM

The best RED GUM timberland proposition in the South. Unequalled water transportation to Mississippi River and Gulf. The Molard Land Co., Alexandria, La.

FARM AND TIMBER LAND

FOR SALE—5000 acres land with timber, something like 10,000,000 ft., about 3 miles of a thriving seaport town. Highway through it. Can be bought for little over half the surrounding lands are bringing. Address Box 264, Raleigh, N. C.

FARM FRUIT, AND TRUCK LAND

ARKANSAS

The rice growing section of Arkansas is coming into its own again. I wish to hear from investors with vision enough to buy before the advance in prices certain to come. Reference: Peoples National Bank, Geo. C. Lewis, Stuttgart, Ark.

FLORIDA

COME TO FLORIDA this summer, and enjoy a real vacation, where the breezes blow all the time. Summer resort excursion rates; inquire of your local railroad agent. We have a home, grove or farm for you. Send for booklet and 1922 summer list. Tampa-West Coast Realty Co., Opp. Post Office, "Since before the War", Tampa, Fla.

FLORIDA—10 acre farms at Geerworth, 10 feet of muck soil. Best opportunity in Florida today. Terms, W. M. Owen, West Palm Beach, Florida.

FOR SALE OR EXCHANGE—300 acres near railroad stations, 13 miles south of Plant City, of which 100 acres is low hammock, balance pine land. Price \$20,000, terms or will exchange for western farm or income property. Incumbered property not considered. H. B. Wordehoff, Plant City, Fla.

INVESTMENT BARGAIN—2000 acre highly improved farm ranch, equipped with modern buildings, machinery, stock, hogs, etc.; close to market, on railroad; late mill, and turpentine still. A money maker, sacrifice for \$135,000. G. E. Gage, 21 Blum Building, Jacksonville, Fla.

60 acre grove bargain, just coming into bearing. All varieties of citrus fruits, well located, in excellent condition. Other groves, etc. Details from R. P. Evans, Dade City, Fla.

SOUTH CAROLINA

Truck farms that pay dividends annually can be bought at reasonable prices here. Vegetables are shipped eight months in the year. Three and four crops are grown on the same land annually. Excellent climate and health. Plenty of labor; strikes unknown. Well organized association that sells all farm products. For particulars write, Lake Realty Company, Beaufort, S. C.

TEXAS

RICH black land farms; well drained; oil, fruit; nature's sanitarium; Gulf Coast; rain belt, hard road; free booklet. Charles Harper, Port Lavaca, Tex.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW, Harlow Building, Colorado Building, Alexandria, Va. Washington, D. C.

If interested in the BEST SECTION OF THE SOUTH If you want a Cotton Mill, or Southern Mill Stocks or Investment in Central Real Estate or Large Suburban Development property or a Manufacturing Site Address

F. C. ABBOTT & COMPANY Trust Building, Charlotte, N. C.

Interest open in Marine Transportation and Commission Company. Business enough from South to earn \$300,000 Net Annually. 25% on capital investment. Alfred S. Perry, Perry Building, Fairfield, Conn.

Partner wanted with \$25,000.00 for established Hardware and Paint Store with splendid location in the heart of business district of Mexico City.

Business is in sound financial condition and has first-class customers.

Present owner on account of old age wants a young, energetic man, with experience of the same business. M. R., Box 408, Mexico City.

A well established Southern wholesale lumber company with no Northern connections desires to make arrangements with good company in North to handle transit shipments on 50-50 basis. Underwood Lumber Corp., Graham Bldg., Jacksonville, Fla.

BUSINESS OPPORTUNITIES

FOR SALE. Brick making plant, cost \$100,000. For sale cheap. Also fine 600 acre southern farm with valuable silica deposits, for \$40,000, or will lease either of these propositions with initial payment of \$5000. Address P. O. Box 191, High Point, N. C.

INDUSTRIAL FINANCING. My business relations in handling several millions of dollars in Municipal Bonds each year, afford me excellent opportunity for selling or financing a few of the larger and better properties or industries, such as good cotton mills, or high-grade timber properties, water power, or anything else provided it is large enough and a bona fide business proposition. I undertake nothing except on my own terms and the strictest regulations, but if I undertake it, I will see it through. Can organize or reorganize corporations and manage bond issue or stock sale. The entire transaction can be managed quietly and in absolute confidence. Don't write to me unless you really mean business. Address Bruce Craven, Attorney, Trinity, N. C.

FOR SALE

The ice plant, bottling works, grocery store and meat market, known as "Crowley's" belonging to the estate of Sarah A. Sullivan, on the northeast corner of Front and King Streets, Georgetown, S. C. All in operation now. Selling preparatory to winding up estate. For particulars write to: W. D. MORGAN, Executor Estate Sarah A. Sullivan

WANTED—To get in touch with concerns that could manufacture veneer drykiln equipment to be made of pressed angle and channel steel and malleable iron. I have a meritorious proposition for those who can take on business as above described. Patent was issued recently on the above described equipment. Address Robert T. Quick, Box 135, Pamplico, S. C.

FOR SALE—Ideal location for factory of any kind, nursery orchard, truck or stock farm. 75 acres touching corporate limits of Central, Pickens Co., S. C., Main line Southern Railway, Dixie Highway, Hydro-Electric power line, telephone and telegraph service on property. Midway between Atlanta, Ga., and Charlotte, N. C. Greenville, S. C., Textile Center of South 29 miles, Spartanburg 70 miles. State Agricultural college 3 miles. Twenty miles to foot of Blue Ridge Mountains with thousands of horsepower undeveloped as yet. Surrounded by small towns with cotton mills every direction. Pickens County ninety per cent white leads S. C. in good roads and education. Plenty of native white labor. Land will produce anything but tropical growth. Climate and Health ideal. Price reasonable. Would consider taking stock in enterprise. Address F. B. Morgan, Central, S. C.

COLLECTIONS

COLLECTIONS MERRIAM, 507 FIFTH AVENUE, NEW YORK CITY

PATENT ATTORNEYS

PATENTS, TRADE-MARKS AND COPYRIGHTS—Write for our Free Illustrated Guide Book and EVIDENCE OF CONCEPTION BLANK. Send model or sketch and description of your invention for our opinion of its patentable nature free. Highest references. Prompt service. Reasonable terms. Victor J. Evans & Co., 712 9th St., Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 624 F St., Washington, D. C.

PATENT ATTORNEYS

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chandler & Chandless, 412 7th St. N.W. Washington, D. C.

JACK A. SCHULEY, Patent and Trade-Mark Attorney, 306 Interurban Building, Dallas, Tex., 219 McGinn Building, Washington, D. C.

INDUSTRIES WANTED

We want a manufacturer or industry employing labor to locate at Jacksonville, Fla. We have 60 acres land on railroad and close to deep water on St. Johns River; brick streets, electric current, both power and lighting, water works system and street cars; three immense warehouses; housing facilities for 40 families.

Will make any reasonable concession to responsible parties. Will give long lease at nominal rental, sell at very low figure or might consider stock in satisfactory enterprise. P. O. Box 48, Jacksonville, Fla.

CEMENT PLANT

A location in South for cement plant. All raw materials, including best steam coal, on property free of freight charges. Can make attractive offer to principals. W. A. Patton, Engineer, Coalmont, Tenn.

FACTORY SITES

MANUFACTURING SITE.

Port of Wilmington, N. C. Two miles south of City of Wilmington, county taxes with city conveniences. About 70 acres of improved land with a 1200 foot deep water frontage on the Cape Fear River. Ideal climatic conditions for outdoor work. Six miles of standard gauge railroad track with railroad connections. Complete fire protection system, power, air and water lines, concrete roadways. Steel truss buildings 260' x 160' and 260' x 80'. Concrete storehouse. Reinforced concrete power house. Details on request.

MARYLAND WRECKING COMPANY, Carolina Shipyard, Wilmington, North Carolina.

BALTIMORE

FACTORY

SITES

William Martien & Company,

1413 Lexington Bldg.,

Baltimore, Md.

Mill Site for Sale; Fifty acres, just outside Lincolnton, N. C., on bracon line Southern Ry., bounded on West by South Fork River, near Transformer house. Good clay and water at hand, so brick may be made at site. J. A. Costner, Cashire, Mt. Holly Bank, Mt. Holly, N. C.

INDUSTRIAL PLANTS

FOR SALE OR LEASE—Manufacturing site; 25 acres, Elkridge Md.; on Patapsco River; about 180 H. P. developed; good buildings; partly equipped; main line B. & O. Address R. W. Kime, Salem, Va.

FOR SALE—Fruit and Vegetable Packing mill in Florida. Rail and water service. Beautiful town. Now making six basket carriers. Soon start orange boxes. Will not take much money to handle. Address No. 6046, Manufacturers Record, Balto., Md.

FOR SALE—Plant for manufacture of Automobile Tires and Tubes; 70% of machinery now set and in building which is constructed of brick, complete steam plant ready for operation; four-acre site; wonderful opportunity. Address J. A. Parker, Gulfport, Miss.

INDUSTRIAL PLANTS

FOR SALE—One Midget Marvel Flour Mill complete, capacity fifty barrels. This mill is new; cause of sale, no wheat raised here. Pat H. Wheat, Lonoke, Ark.

FOR SALE

Two Business Properties at Highlandtown, Baltimore Improved for any manufacturing or development purpose, with power house and refrigeration at option of purchaser.

Situated as follows:
(1) Lot 120 feet front on Eastern Ave., through to Fleet St., and 120 ft. front on Fleet St., with four-story brick buildings ready for use.

(2) Lot 66 feet frontage on Third St., by 379 feet fronting on Bank St., improved by brick buildings.

Both properties immediately available, can be bought separate or as a whole.

Apply to The Wm. Schluderg-T. J. Kurdie Co., Baltimore and Fifth Sts., Baltimore, Md.

LUMBER AND BUILDING MATERIAL

Direct Mill Prices on

LUMBER

You can effect big savings on genuine long leaf flooring, Ceiling, Siding, Sheathing, Moulding and cut-to-length Framing, by ordering direct from the producing field. Complete bills, guaranteed grades and workmanship. Submit schedule for delivered price. The Dimension Co., Lockhart, Ala.

MERCHANDISE WANTED

SPOT CASH for surplus merchandise job lots, close-outs, discontinued lines, goods ordered and left-on-hand, etc. (no machinery). No quantity too large. Quick cash for real bargains. Fantus Bros., 1319 S. Oakley Ave., Chicago, Ill.

AGENCIES WANTED

MANUFACTURERS' AGENT: Man with broad experience in handling Iron and Steel and other products, with offices and organization in Southern City, would like to represent as Manufacturers' Agent, reliable concerns in South Atlantic States. Address No. 6050 care Manufacturers Record.

Reliable party with offices in Louisville, Ky., is open to receive proposition from reputable manufacturer for Kentucky and Indiana territory. Address No. 6051, care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

Water Works Superintendent, now employed, but desires change by Oct. 1; prefers to go to a city in Southwest. Cities with old, antiquated, outgrown systems which require rebuilding, his experience is in this line. Address N. 6048, Manufacturers Record, Baltimore, Md.

Thoroughly efficient executive over 20 years experience in fertilizer business as chief accountant, collector, salesman and general manager, and intimately acquainted with the trade, desires position of responsibility as manager or in administration department of reliable Fertilizer Company. Best of references furnished. Address STRICTLY BUSINESS P. O. Box 688 Charleston, S. C.

MEN WANTED

Salesmen for Southern States, who call on oil mills, gins and industrial plants to sell "Master-Grip" Pulley Covering on liberal commission basis. Exclusive territory to men who travel regularly. Master-Grip Manufacturing Co., Austin, Tex.

SALESMAN CALLING ON LUMBER YARD MILLS. etc., to sell sash cord, twine and rope wholesale. Commission basis. Give full information in first letter. Address Twine & Cordage Co., of Chicago, 1303 W. Lake St., Chicago.

WANTED—Experienced man for Reverberatory Furnace and White Metal Plant. Good job to right party. Write to Bostwick-Lyon Bronze Co., Waynesboro, Pa.

"EXECUTIVES and men of proven ability seeking positions find our service extremely satisfactory. Our Mr. H. H. Harrison can confidentially negotiate for you suitable connections as he has done for thousands of others since 1909. Inquiries invited. The National Business Bourse, Inc., Association Building, Chicago."

A LEADING ORGANIZATION desiring to fill an important position, for obvious ethical and other reasons, cannot invite directly the candidacy of any particular man. Similarly, no well-connected man will exploit personally his own qualifications, no matter how receptive he may be to overtures. The undersigned has been retained by a national clientele for many years, as a medium for negotiating preliminaries in such cases. Your permission to send booklet discussing this problem and describing the service, will in no degree obligate or compromise you. Strictly confidential. R. W. Bixby, Inc., 303 Lockwood Bldg., Buffalo, N. Y.

AUTO ACCESSORY—Just out; every owner of an automobile a prospect; "needed." Agents wanted. Write quick. The Cincinnati Specialty Co., Cincinnati, Ohio.

MEN WANTED

WANTED—An experienced man to superintend the manufacture of veneer shooks, potato barrels, bean and cantaloupe crates, and possibly peach crates. State price expected in first letter and give good references. H. L. Lawton, Lena, S. C.

WANTED—Superintendent, foreman, shovel runner and clerk for gravel pit in the South; only experienced men need apply. Address No. 6052, care Manufacturers Record, Baltimore, Md.

STEAMER FOR SALE

REAL BARGAIN—Single screw-propelling steamer Atlantic. Registered dimensions 103.3x23.7x7.9 ft.; 3 decks, 2 large cabins on upper deck, 1 saloon deck, social hall aft., freight space forward, thoroughly overhauled and rebuilt, now at Charleston, S. C.; accommodate about 350 day passengers; built of yellow pine planking, oak frames partly sheathed with galv. iron.

HENRY A. HITNER'S SONS CO.,
4501 Richmond Street,
Philadelphia, Pa.

MACHINERY AND SUPPLIES

Small lot ship augers, rubber gaskets, new. Cheap to move lot quick! Pratt Thompson, 220 E. Lexington St., Baltimore, Md.

50 pound Oxweld Acetylene generator, mounted on 4-wheel truck, for portable or stationary use. Condition same as new. Seddon-Murphy Machine Co., Houston, Tex.

FOR SALE—Six Heil Gravity Dump Steel Bodies for Ford Trucks. One cu. yd. capacity. Used only a few months. Sixty Dollars each. Cooper Construction Co., Tupelo, Miss.

TRACTORS—We are offering a limited number of Cletrac Model W "Tank Type" tractors at reduced prices. These tractors are absolutely new and have not been used. Speer & Watkins, Anderson, S. C.

MACHINERY AND SUPPLIES WANTED

WANTED—One Coe Veneer Machine, suitable for making Bean and Lettuce Crates, with back roll on same; two Hammer machines, prefer Saranac; one Veneer Clipper. Machines must be in good condition. Am also interested in other machinery necessary for manufacturing Bean and Lettuce Crates. H. L. Lawton, Lena, S. C.

SPECIAL ADVERTISEMENTS Of GENERAL INTEREST

Modern Fertilizer Mixing Plant FOR SALE

Brand new, suitable for other purposes with small additions. Size 144 by 200 feet. Good track facilities, etc.

Chas. D. Carr, Receiver, Augusta, Ga.

Have You Ordered Your Blue Book of Southern Progress

Single Copies 50c
Manufacturers Record, Baltimore, Md.

Plant Sites For Sale in the

Birmingham District

HYDRO-ELECTRIC POWER EQUABLE CLIMATE

Sizes to suit all needs on all railroads. Supplies of coal, coke, iron and steel within trucking distance.

Labor situation better than in other industrial centers. Hydro-electric power available. Equable climate. Address

BIRMINGHAM REALTY CO.

Owners
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THE TEXAS AND PACIFIC RAILWAY

SERVES

Dallas
Fort Worth
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Sweetwater
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IN
TEXAS

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Shreveport
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IN
LOUISIANA

*Splendid opportunities for manufacture
and distribution.*

Address

Frank J. Burke
Land & Industrial Commissioner
Dallas, Texas

To the MANUFACTURER and DISTRIBUTOR

Abundant supplies of coal, coke, iron, timber and other raw materials lie in the regions of Georgia and Alabama, which are traversed by the

Central of Georgia Railway

Cheap electric power, numerous undeveloped water-powers, good home markets and excellent shipping facilities. Therefore, manufacturing conditions are ideal.

Many of the cities on the Central of Georgia Railway occupy advantageous positions for distributing warehouses, and a number of the larger northern and eastern manufacturers supply their southeastern trade from branch houses in these cities.

Full and detailed information upon application.

J. M. MALLORY, General Industrial Agent
SAVANNAH, GEORGIA

The Chamber of Commerce, of Roxboro, N. C., desires a full time secretary. To meet requirements applicant must be possessed of pleasing personality, must be a man of broad vision with ability to impart this to others, must have executive ability to carry things thru. We expect to pay for these things and offer an opportunity to the right man. No inexperienced, cheap man desired and highest class references must be furnished. Address letters to:

M. R. LONG, President
Roxboro, N. C.



No Labor Troubles in Pulaski

Come to Pulaski, where labor troubles are practically unknown. Coal within six miles, power in abundance. Pulaski is located near the main producing stations of the Appalachian Power Co. The ideal spot for your factory or plant.

Write for full information about the advantages of Pulaski.

Address: **B. C. Taylor, Sec'y.**
PULASKI KIWANIS CLUB
PULASKI, VA.

REFINERY FOR SALE

I am offering for quick sale a modern Refinery and Shortening Plant in good condition. Located in City in heart of Cotton District.

Also first-class six press Crude Mill in North part of Cotton Territory. Big crop.

For complete description and price write,

A-268 care Manufacturers Record

OPPORTUNITIES Industrial and Agricultural

The A. & W. P.—W. Ry. of Alabama and Georgia Railroads traverse a territory rich in material and potential resources. Attractive industrial sites. For information apply:

**Commercial & Agricultural
Dev. Dept.—Above Lines
Atlanta, Georgia**

WILLIAM L. STUCKERT, Solicitor, 231 St. Paul Place, Baltimore, Md.

ASSIGNEE'S SALE

— OF —

Valuable Mill and Factory Property

KNOWN AS "LAUREL MILLS"

AT LAUREL, MD.

By virtue of the power of sale contained in a mortgage from the Industrial Power Corporation to the Mt. Vernon-Woodberry Mills, Incorporated, dated June 3rd, 1921, and recorded among the Land Records of Howard County in Liber H. B. N. 112, folio 534, etc., and recorded also among the Land Records of Prince George's County in Liber 164, folio 137, etc. (default having occurred thereunder), the undersigned, Assignee of said mortgage, will sell at public auction, on the premises, on

TUESDAY, AUGUST 22, 1922

AT 4 o'clock P. M. (Daylight Saving Time)

AT 3 o'clock P. M. (Standard Time),

All that property partly located in Howard County and partly in Prince George's County, and generally known as the "Laurel Mills," formerly one of the Mt. Vernon-Woodberry Mills, Inc., mills, containing 200 acres of land, more or less, and fully described in said mortgage, lying along both sides of the Patuxent River and adjoining the town of Laurel, Md., on the main line of the B. & O. R. R. between Baltimore, Md., and Washington, D. C., and with trolley service to Washington; together with water rights, water power plant, dam, canal and water wheels. Main mill building 53 feet by 343 feet, second building 74 feet by 151 feet, two-story office building, repair building, boiler house, three store-houses, stone church used for storage, stable used for storage, tool room, blacksmith shop, and pump room, and 44 dwellings, 28 of which are brick, 8 stone, 6 frame, and 2 part stone and frame.

This property affords an unusual opportunity for the purchase of a mill property to anyone desiring to locate in a neighborhood where cheap power is obtainable. It should interest manufacturing industries using power desiring these advantages, such as dye-house, finishing works, underwear, hosiery, shirts, children's clothes, etc.

For plot of entire property and other information apply to the office of William L. Stuckert, 231 St. Paul Place, Baltimore, Md.

TERMS OF SALE: Cash, sixty days from ratification of sale, with interest on unpaid purchase money at six per cent.

A deposit of \$5,000 will be required of the purchaser at the time and place of sale.

All expenses to be adjusted to the day of sale; purchaser to pay for war revenue stamp.

WILLIAM MERRIKEN, Assignee.

E. T. Newell & Co.
Auctioneers.

RESALE DEPARTMENT

MACHINERY

EQUIPMENT

SUPPLIES

**WANTED
PLANTS
FOR WRECKING**

or dismantling purposes. Buyers of iron, steel and metal scrap.

H. KLAFF & CO.
Central Ave., Gough & Stiles Sts.
BALTIMORE, MD.

FOR SALE

- 1—18x36 Allis-Chalmers Corliss Engine, 350 hp. Right hand heavy duty, 12' flywheel 125 r.p.m. Mill type frame.
- 1—Cookston water heater 250 hp, open feed type.
- 1—2x15 Blake Crusher.
- 1—Rotary screen 48"x8' Heavy duty.
- 1—Rock chain elevator 60' long, complete.

PRATT BROTHERS
Texarkana, Arkansas

823 H. P. BOILERS

- 40—823 H.P. Babcock & Wilcox Stirling Water Tube Boilers, 200 lb. Pressure. Fully equipped with all accessories, including Westinghouse 8 retort stokers, Vulcan soot blowers, Forced draft fans, etc. Tested under pressure but never used.

Locate Your Plant in the South
NASHVILLE INDUSTRIAL CORPORATION
Jacksonville, Tennessee

**MOTORS
FOR SALE**

- 4—200 H.P. 400 volt, 233 Ampere per phase, two phase, 500 R.P.M. 60 cycles, 7200 alternations. Westinghouse Type "C" Squirrel Cage Induction Motors.
- 3—200 H.P. 2300 volt, 500 R.P.M. 60 cycles, 7200 alternations. Westinghouse Type "C" Squirrel Cage Induction Motors.

All these motors can be reconnected for three phase service. The motors were coupling connected to our Brush Arc Generators, one coupling on each end of the shaft, and the flange couplings still remain. The motors have shaft extensions of 9 1/2" on each end, the shaft diameter being 4 1/2".

No starters, bases, couplings or pulleys go with the motors.

Price on application to
J. F. TORRANCE, General Storekeeper
Duquesne Light Company Pittsburgh, Pa.

JUST A FEW OF MANY ITEMS

- 2—Ingersoll-Rand 327 C.F.M. AIR COMPRESSORS
 - 3—B & W 220 H.P. 160 lb. BOILERS
 - 1—Lakewood Engineering Co. No. 24 Concrete MIXER
 - 1—Byers Model "C" full-revolving "Caterpillar" Traction CRANE
 - 1—Interstate, 10-ton, 8-wheel Locomotive CRANE
 - 1—O & S 20-ton Locomotive CRANE
 - 1—Austin No. 3 Gyratory CRUSHER
 - 2—Huetteman & Cramer 80-ton, silent chain drive REFRIGERATING MACHINES
 - 2—E & B Holmes Barrel Hoop DRIVER
 - GENERATORS—MOTORS—PUMPS—TRENCHING MACHINES—BACK FILLERS—ROAD ROLLERS
- Give us your inquiries for any machinery you need. Advise what you have for sale.

HOLLANDER EQUIPMENT COMPANY
10 East 43rd Street
Phone Murray Hll 8983 NEW YORK, N. Y.

75 K.W.

125 Volt, Crocker-Wheeler, D.C. generator, direct connected to 14 x 12 Ames, heavy duty, center crank, automatic engine. Numerous others in stock.

COLEMAN-SHOEMAKER, Inc.
20th & Clearfield Streets, PHILADELPHIA

RESALE DEPARTMENTJuly 27, 1922.
Manufacturers Record.**OIL AND GAS ENGINES
For Sale****Prompt Deliveries****New and Rebuilt Full Diesel Type
Oil Engines**

- 2—450 B. H. P. vert., 6 cyl., coupled to 3-ph. 60-cyc. A. C. generators.
- 1—450 B. H. P. vert., 6 cyl., belted.
- 2—225 B. H. P. vert., 3 cyl., bld. or cpd.
- 1—225 B. H. P. vert., 3 cyl., coupled to 200 K. V. A. 3-ph. 60-cyc. 2300-v. generator.
- 1—170 B. H. P. vert., 3 cyl., belted.
- 1—120 B. H. P. vert., 3 cyl., coupled to 85 K. W. 3-phase. 60 cyc. 2300-v. generator.
- 1—120 B. H. P. vert., 3 cyl., coupled or belted.

Semi-Diesel Oil Engines

- 1—60 B. H. P. vert., agl. cyl., 2 cyc., belted.
- 1—40 B. H. P. vert., agl. cyl., 2 cyc., belted.
- 2—25 B. H. P. horiz., F-M. type "Y" belted.

Gas Engines

- 1—150 B. H. P. vert., 3 cyl., coupled to 100 K. W. 250-v. D. C. generator.
- 1—100 B. H. P. vert., 3 cyl., coupled to 62 1/2 K. W. 125-250-v. D. C. generator.

Above only partial list—write or wire us full details your requirements.

A. McMillan 628 Monadnock Block, Chicago
**Specialist in Diesel Oil and Internal
Combustion Engineering****TURBINE**

completely overhauled at factory, never been used since, good as new. Rated H.P. 55-85, 1739 R.P.M. Steam Pressure 125. Manufactured by Kerr Turbine Co.

Write or wire.

PALMER-RHODES COMPANY
MIDVILLE, GA.**Red and Buff Dry Pressed Brick,
Common Building Brick****GEORGIA-CAROLINA BRICK CO.**
HOWARD H. STAFFORD, Pres.
AUGUSTA, GA.**TIMBER SIZER**

1—No. 16, 20" x 16" "P. B. Yates" 95% New.

Priced to Sell

L. F. SEYFERT'S SONS INC.
437 N. 3rd St. - Phila., Pa.**CORLISS ENGINES**

20—18 x 36 Corliss Engines, 350 H.P., heavy duty mill type, either right hand or left hand. Fly wheel 11' x 32". Can furnish either new or used. Complete specifications and photographs on request.

Priced extremely low for quick sale.

Locate At Old Hickory

NASHVILLE INDUSTRIAL CORPORATION
Jacksonville, Tennessee**FOR IMMEDIATE DELIVERY
FROM STOCK:**

30,000 feet 1 1/4"

10,000 " 1 1/2"

25,000 " 2"

10,000 " 2 1/2"

Also various quantities other sizes; black pipe equipped with threads and couplings.

MARYLAND PIPE SUPPLY CO.
HAGERSTOWN, MD.

3—230 H. I. & W. Boilers 180 lbs. Complete with grates and fittings.

\$8.00 per HF

f. o. b. cars Jacksonville, N. C.

PFANNMUELLER ENGINEERING CO.

305 First National Bank Bldg.

CHICAGO**FOR SALE**

- 1—400 H.P. Rust Water-tube Boiler, complete, with stokers.
- 2—350 H.P. Vogt Water-tube Boilers, complete, with stokers.
- 3—300 H.P. Helme Water-tube Boilers, hand fired.
- 1—600 H.P. Springfield Scotch Type Boiler.
- 1—72"x18" H.R.T., lap side seam, triple riveted.
- 1—60"x16" H.R.T., butt joint, triple riveted.

CHAS. T. LEHMAN**Birmingham, Ala.****FOR SALE**

- 1—Heavy Duty I. & E. Greenwald Engine size 17 by 42. At 1/4 cut off, 140 pound Boiler pressure, 34 R.P.M. Indicated Horse Power 317.
- 1—14 Ft. Drive Wheel 12 grooves for 1 1/2 inch rope. One Gardner Steam Separator. Engine and all working parts in good order.
- One 10 x 12-15 H.P. I. & E. Greenwald Slide Valve Engine.

STANDARD RICE COMPANY, INC.
Houston, Texas**GENERATOR BARGAINS**

- 1—200 KW, 720 RPM, 2300 V, 60 Cy, 3 Phase.
- 1—100 KW, 900 RPM, 2300 V, 60 Cy, 3 Phase.
- 1—30 KW, 110 V, D.C., Western Electric, direct connected to a 60 H.P. Vertical Steam Engine.
- 1—8 KW, 115 V, D.C., Milwaukee Electrical Vertical Steam Engine Generator Set with Swbd.
- 1—8 KW, 35 or 125 V, D.C., G.E., direct connected to Kerosene engine.

V. M. NUSSBAUM & CO.
FT. WAYNE, IND.**FOR SALE**

1/20 volt D.C. MOTORS LIKE NEW at sacrifice prices.—We are overstocked and closing these out—Low PRICES for immediate sale.—

GREGORY ELECTRIC CO.
CHICAGO, ILLINOIS

Send For Monthly Bargain Sheet

16th & Lincoln St., Chicago, Ill.**HENRY A. KRIES & SONS CO.**

Steam and Mill Supplies, Pipe Fittings, Complete Power Plant Equipment, Manufacturers and Machinists, Refrigerating Engineers and Contractors.

6 and 8 W. Lombard St., BALTIMORE, MD.**MACHINERY BARGAINS**

Send for our August booklet of the largest stock in the United States of slightly used and thoroughly overhauled MACHINE TOOLS, POWER, ELECTRICAL AND CONTRACTORS' EQUIPMENT.

Satisfaction Guaranteed or Money Refunded.

WICKES MACHINERY CO.

Jersey City, N. J.

Established 1900

IN TROUBLE**MOTORS RENTED**

Any Size or Kind

Largest stock of its kind in America.

NATHAN KLEIN & CO.**208 Centre St., N. Y.****LONG LEAF YELLOW PINE**

For Sale—100,000 ft. 2 x 6 S2S & C M.

1 Car 12 x 16 Mer' 06.

Quick Shipment.

Henderson Land & Lumber Co.
Tuscaloosa, Ala.**FOR SALE**

1—No. 80 American Blower Sirroco Induced Draft Fan in good condition.

W. N. CLARK COMPANY
Rochester, N. Y.**BARGAIN
AIR COMPRESSOR**

1—CHICAGO PNEUMATIC AIR COMPRESSOR, belt driven, cylinder 14" x 16", including air receiver 42" x 8", gauges and automatic relief valve. CAPACITY—427 cu. ft. free air per minute at 100 lbs. pressure operating at normal speed.

**WE ALSO HAVE LOCOMOTIVE
CRANES, GENERATOR SETS,
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1—	A.C. Generator Type AQB 623060 Class 72-800 A 100 Form E Volts 2300 speed 100 amps. 171 direct connected
1—	7 x 12 x 12 x 12 two stage single horizontal double acting air compressor 150 lbs. working pressure.
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1—	5 inch belted motor driven centrifugal well pump.
1—	Worthington 30 inch Barometric Condenser, with
2—	14 inch motor driven centrifugal pumps for circulating water.
1—	G.E. Induction motor, Type IQ Class 6, 150 A 1200 Form K2 Volts 2200, with compensator, connected to above pump.
1—	10 x 22 x 18 horizontal single cylinder dry vacuum pump.
1—	5 1/4 x 3 1/2 x 5 horizontal duplex oil pump.
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2—	Belts 110' x 4'-4" x 1/2" thick
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1	40	220	1200	H	Fairbanks-Morse.
1	40	440	900	H	Fairbanks-Morse.
1	50	440	900	H	Fairbanks-Morse.
1	50	220	1200	H	Fairbanks-Morse.
1	50	440	850	AN	Allis-Chalmers.
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Triumph generator, 1-100 amp. 110 volt, 1275-r.p.m. D.C. generator.....	700.00
Hydraulic press (No. 55) 1-veneer press, 34 x 70" platen, 8" ram with pump and connection with trucks.....	1,000.00
Wetmore glue heaters 2-25 gal. copper steam jacketed glue heaters \$25.00....	150.00
1-Handy clamp carrier, 108 arms, 6 wheels	700.00
1-12" swing turning lathe.....	80.00
1-Spindle stand	

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1-5 h.p. D.C. electric motor, 1800-r.p.m., 220 volts, drives hydraulic pump for press in basement.....	90.00
1-No. 2 Columbia 42" 2 drum sending machine No. 43.....	1,000.00
GENERAL ELECTRIC MOTOR 1-3 h.p., D.C. motor type CVL 111, form AA 65. 230 volt, 11.9 amp., 1650 r.p.m. No. 397868, slide base with starting rheostat and switch.....	
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1-Powers 12" buzz planer and jointer	200.00
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1-Greefe dryer 18 x 18 x 8' drying oven, complete with steam coils, blower and motor	1,000.00
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1-Saw table (No. 30) 36" x 42" iron top wood frame.....	100.00

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1-Carey Moulder (No. 48) 2-Head straight moulding machine, 55½ x 44½" iron top table with floor countershaft	500.00
1-Whitney Band saw (No. 57) 30" spoke, wheel band saw, wood table..	90.00

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1-Jeweler's turning lathe for accompan assembly, including motor and tools	100.00
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1-10' 6" x 10' 6" x 8' high fuming chamber pine galv. iron lined.....	50.00
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1-4½ x 4½" vertical air compressor, water cooled belt drive with 16 x 60" welded steel tank.....	100.00
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Maddox Rubbing Machine	
1-Wood rubbing machine, 2 head, 30" stroke, 40x14" wood slide table, hand wheel adjustment, arranged for belt drive	400.00
General Electric Motor	
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2-5x8' 6"x5' high Fumexer, type M hood, with 2-16" fans, electric heater and gum \$150.	600.00

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- 1—Ingersoll-Sergeant High Pressure Steam Driven Air Compressor, two stage, low pressure cylinder 18" x 12", high pressure cylinder 12" x 12"; capacity 600 cu. ft.
- 1—Clayton Duplex Steam Driven Air Compressor, duplex steam and two stage air cylinders, dial steam cylinder 10", low pressure air cylinder 16 1/2", high pressure air cylinder 10", stroke 10"; capacity 425 cu. ft.
- 1—Chicago Pneumatic Fuel Oil Driven Compressor; capacity 300 cu. ft., 100 lbs. pressure.
- 12—New York Air Brake Co. Locomotive Type Two Stage Air Compressors, 10" low pressure cylinder, 8" high pressure cylinder, 8" stroke, 7" steam cylinders.

PUMPS

- 1—16" x 8 1/2" x 12" Duplex Steam.
- 1—14" x 10 1/2" x 10" Duplex Steam.
- 1—12" x 7" x 10" Duplex Steam.
- 1—10" x 6" x 10" Duplex Steam.
- 1—8" x 4" x 6" Duplex Steam.
- 4—5 1/2" x 3 1/2" x 5" Duplex Steam.
- 2—4 1/2" x 2 1/2" x 4" Duplex Steam.
- 1—3" x 2" Deane Triplex Single Acting Power Pump.
- 1—Kingsford Horizontal Centrifugal Water Pump, 24" suction, 24" discharge.
- 1—Platte Iron Works Horizontal Centrifugal Water pump, 14" suction, 12" discharge.
- 1—Fulton Horizontal Centrifugal Water Pump, 12" suction, 10" discharge.

BOILERS

- 1—R. & W., 284 H.P. Water Tube; 150 lbs. pres.
- 1—Eric City, 250 H.P. Water Tube; 150 lbs. pres.
- 2—22" x 18" Horizontal Tubular; 115 lbs. pressure.
- 2—66" x 20" Horizontal Tubular; 115 lbs. pressure.
- 1—72" x 16" Horizontal Tubular; 115 lbs. pressure.
- 1—100 H.P. Locomotive Fire Box 90 lbs. pressure.
- 1—50 H.P. Locomotive Fire Box; 90 lbs. pressure.
- 1—50 H.P. Internally Fired; 90 lbs. pressure.
- 1—20 Vertical; 110 lbs. pressure.
- 1—20 H.P. Vertical; 100 lbs. pressure.

ENGINES

- 1—28" x 48" Hamilton Right Hand Corliss.
- 1—20" x 42" Ohio Right Hand Corliss.
- 1—18" x 42" Allis Right Hand Corliss.
- 1—12" x 24" Buckeye Left Hand.
- 1—12" x 24" Douglas Plain Slide Valve.
- 1—10" x 12" Chandler Taylor Plain Slide Valve.
- 1—9" x 10" Arrington & Simms Automatic.

TANKS

- 10—24" x 5' Hot Water Tanks, 120 gal. capacity, 65 lbs. water pressure.
- 5—20" x 3' Hot Water Tanks, 85 gal. capacity, 65 lbs. water pressure.
- 6—Hot Water Feed Tanks, 48" dia., 10' long, with one convex and one concave head, man-hole in head, about 1/2" plate.
- 6—Heavily Constructed Filter Tanks, about 66" dia., 5' 6" high, with dished heads, 1/2" plate.
- 2—Open Top Storage Tanks, 4' 9" wide, 4' 8" deep, 10' 6" long; 7/16" plate.
- 2—Open Top Storage Tanks, 9' 6" wide, 2' 4" deep, 10' 8" long; 7/16" plate.
- 1—Open Top Storage Tank, 9' 8" wide, 4' 9" deep, 10' 8" long; 7/16" plate.
- 1—Open Top Storage Tank, 10' wide, 6' 9" deep, 16' 3" long; 7/16" plate.
- 2—Open Top Storage Tanks, 6' 9" wide, 5' deep, 16' 3" long; 7/16" plate.
- 2—Open Top Storage Tanks, 10' wide, 3' 3" deep, 16' 3" long; 7/16" plate.
- 10—Open Top Storage Tanks, 3' wide, 3' deep, 7' long; 3/16" material.
- 12—New Black Seamless Welded Open Top Tanks, approximately 45" wide, 8" deep, 8 to 9' long, 3/16" plate.
- 75—New Government Galvanized Tanks, 18" wide, 18" long, 48" deep, 7-gauge galvanized stock, fitted with hinged cover.
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- 3—8' x 20' x ½" Plate (with steel agitators)

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- 3—Vertical 8' x 9' 6" x ½" Plate—jacketed and with steam coils

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- 4—Worthington Duplex 3000 lb. 14"x20"x2½"x18"
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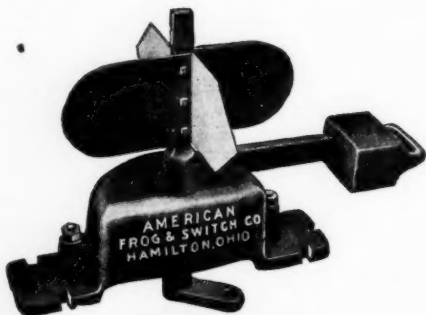
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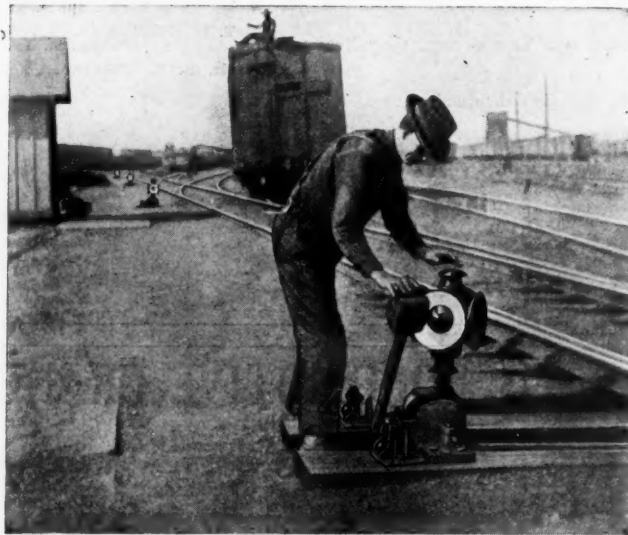
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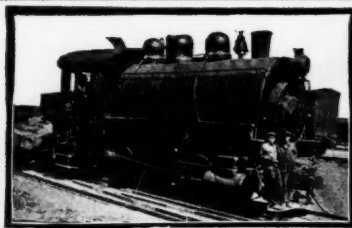
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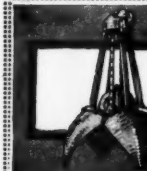
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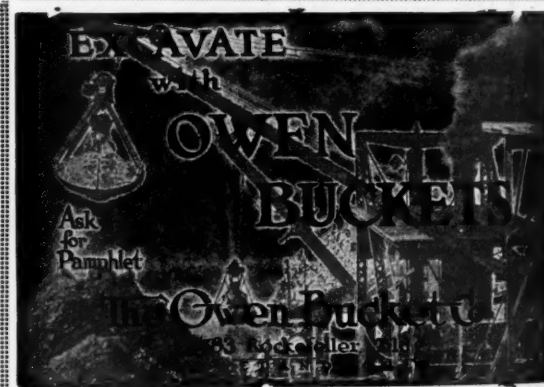
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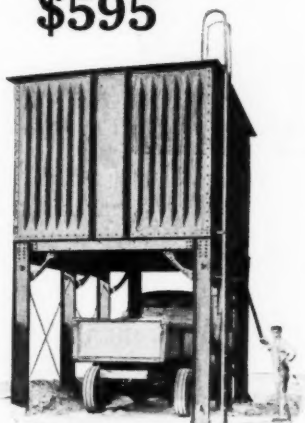
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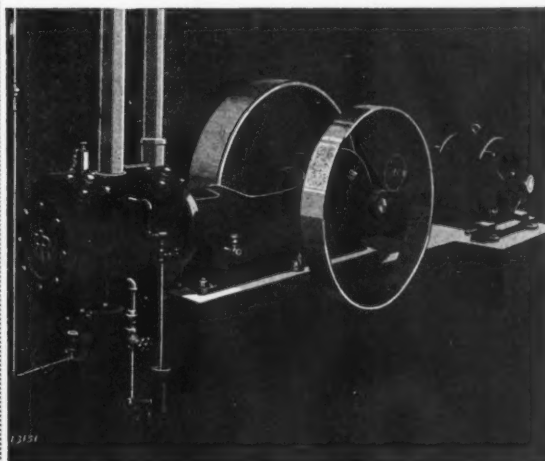
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Belt Conveyors, Belt and Bucket Elevators, Crushers for Coal and Coke, Rotary Grizzlies, Bin Gates, and many other types of material handling equipment. Write for Handbook of Conveyor Practice.

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The KEYSTONE is a highly versatile traction steam shovel with all the efficiency of specialized design, usable with three different interchangeable scoops

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Model 4
14 ton
All Steel
Excavator
with 1/2 yd.
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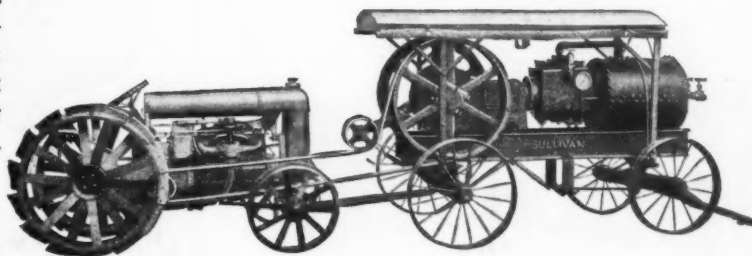
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*It never takes a day off
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 It works cheerfully and steadily as long as
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Model "C-15" Buckeye Excavator, shown above, will replace a whole gang of men and at the same time give you a better trench, quicker, at less cost.

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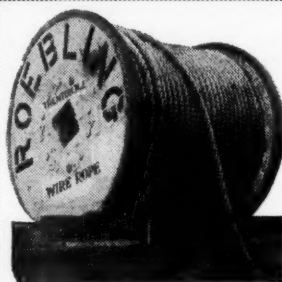
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Look up the successful contractors—the ones that have a nice balance on the right side of the ledger—and we are sure you will find that a large number are using Stroudsburg Hoisting Engines. They demand the best and buy Stroudsburgs.

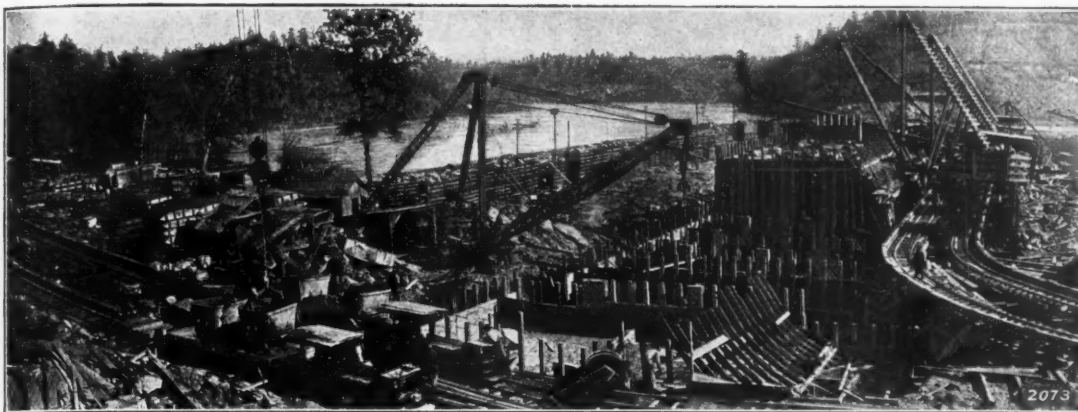
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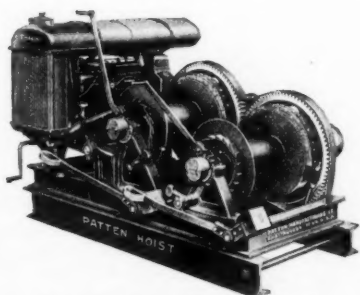
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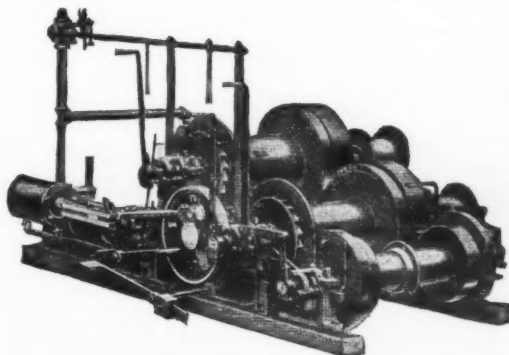
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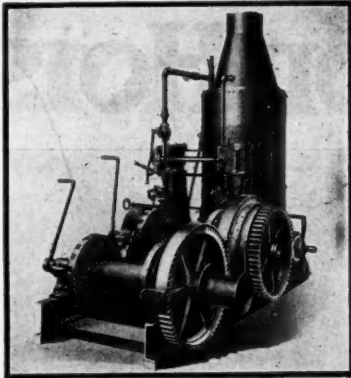
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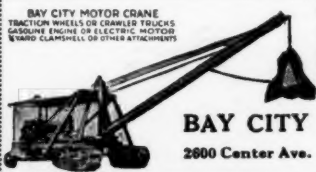
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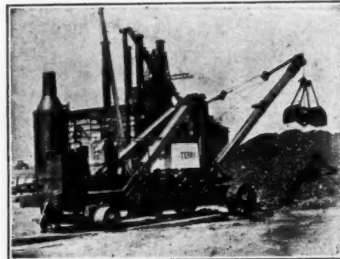
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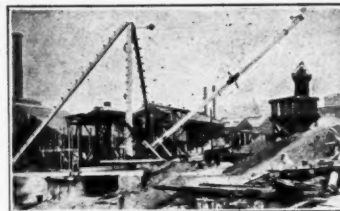
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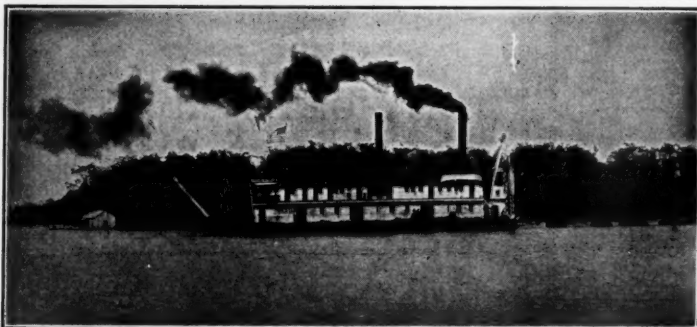
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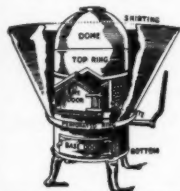
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CRUSHED LIMESTONE Best for All Purposes

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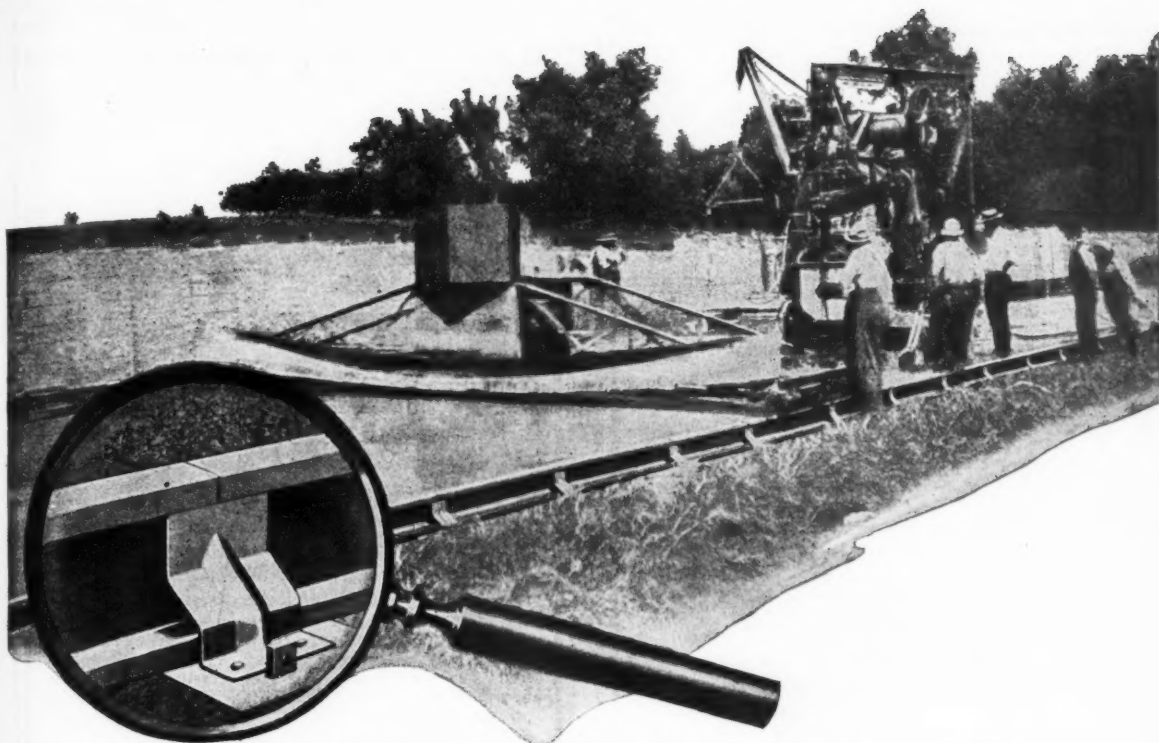


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You Can Set Heltzel Forms Easily and Quickly

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The confines of the average page of space are too limited to tell you all you will want to know about how Heltzel steel forms are built like a railroad and how this means better road building for less money. Complete details are contained in the Heltzel Blue Book and a copy is ready and waiting to be sent without obligation to you. Will you please write for yours?

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Heltzel steel forms are built like a railroad—a rail, a pedestal and a stake—no keys, wedges or clamps. No right or left hand rails.

Line the pedestals, lay the rails and place them on the pedestals by simply fitting the rail groove over the pedestal flange—fits snug and secure—a perfect joint.

The top of the rail hangs on the pedestal top; the bottom of the rail rests flat on the pedestal base and solidly against the pedestal upright making a joint absolutely rigid and guaranteeing a perfect alignment.

And Heltzel steel forms are just as

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HELTZEL

STEEL FORMS

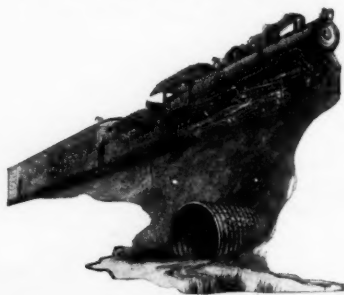


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The J. T. Tractor Company
(Ohio Corporation)

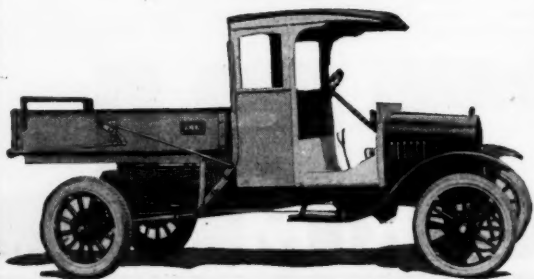
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THE JENNINGS PATENTED LEVER AND TAIL GATE are special features which put the Jennings Dump Bodies in a class to themselves. By pulling the lever forward, the body dumps; by lifting the lever the body is brought back to the loading position. The lift required is about 30 lbs. JENNINGS, the Ideal Body for Ford Trucks.

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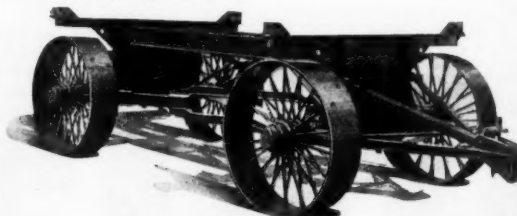
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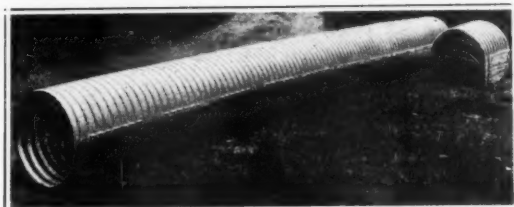
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BUTT-JOINT NESTABLE CULVERT IS

Easier to haul
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Butt-Joint Nestable Culvert in addition means greater strength. Ordinary riveted culvert is no stronger than its shearing strength.

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CHATTANOOGA, TENNESSEE

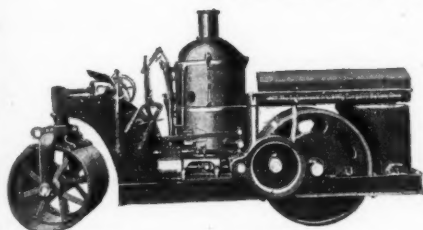
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OF ALL KINDS
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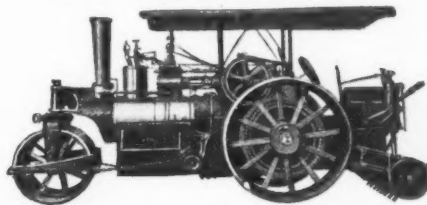
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Write Us Right Now.

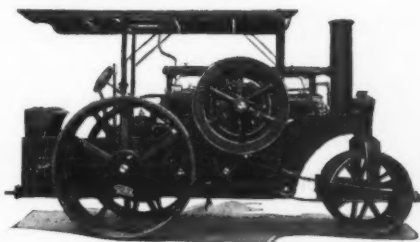
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THE GALION IRON WORKS & MFG. CO. — — Main Offices and Plant, GALION, OHIO

Designed for Greatest Efficiency

In these days of economy and speed, contractors cannot afford to load and unload by hand.

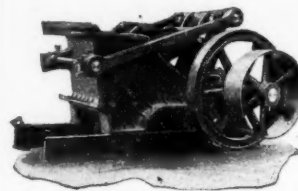
The Burch Stone Unloader was designed to give greater efficiency with least expenses.

Simplicity of construction and operation are outstanding features of The Burch.

The elevator can be set at an angle of 29 degrees. A clutch enables one man at the delivery end within reach of the wagon to easily handle that part of the job.

The Burch Plow Works Co.
Crestline, Ohio

We also manufacture the
Burch Stone and Gravel
Spreader.



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**The
Jaw Crusher
That Is
DIFFERENT**

The design of the Western-Aurora is unlike that of any other jaw crusher. Among its distinctive features are a continuous double stroke crushing motion and a form of construction that has no springs to break or toggles to drop out. As a result this crusher excels in

**CAPACITY SIMPLICITY
EFFICIENCY DURABILITY
RELIABILITY ECONOMY**

Other units that go to make up the complete crushing plant are on a par with the crusher itself. Elevator, screen, bin—all are of the most substantial construction.

A Western-Aurora crushing plant is a mighty fine investment from every angle.

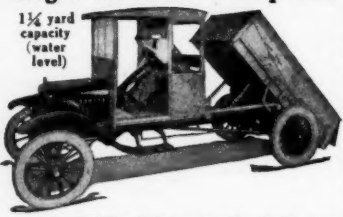
Send for Catalog No. 44-M in which these plants are illustrated and described in detail.

The Austin-Western Road Machinery Co.
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Branch Warehouses and Service Stations in 23 Cities

Eagle Universal Dump and Express Body

1 1/4 yard
capacity
(water
level)



The Driver does not have to leave his seat to Operate the Dump. And he can:

Dump the load in 3 seconds or dump the load in 3 minutes by using the foot brake to control the load. The maximum dumping angle is 60 degrees and can be locked at any point. While driving truck—body can be brought down to normal position in 20-30 seconds. The tail gate opens and closes automatically. Body can be used as a regular express and has a steel lined bottom.

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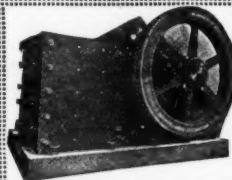
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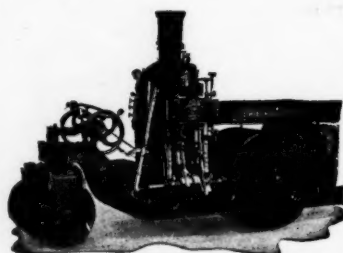
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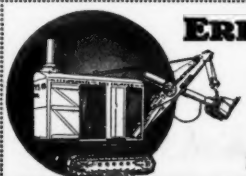
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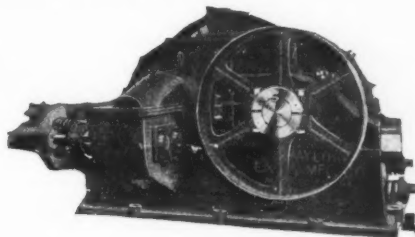
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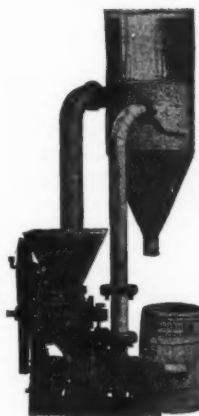
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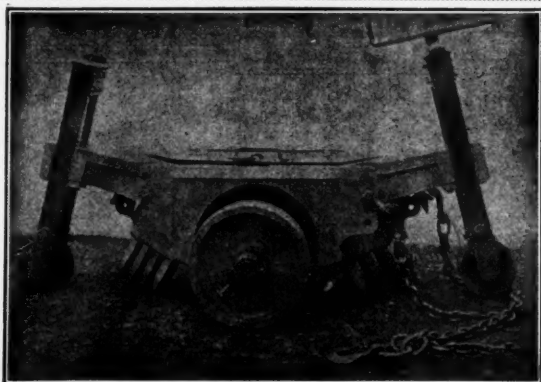
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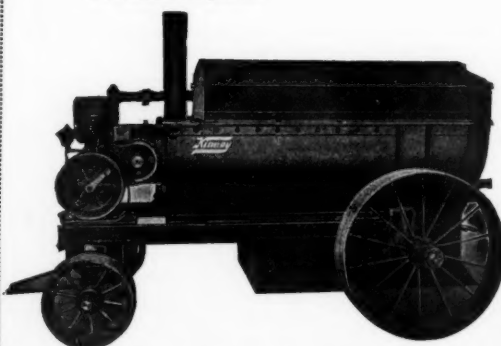


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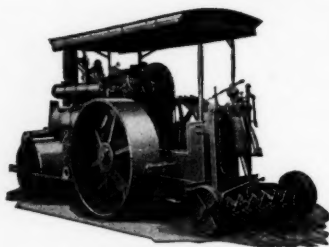
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Morgan Construction Co., Worcester, Mass.

Gas Reversing.

Morgan Construction Co., Worcester, Mass.

Gate.
Ludlow Valve Mfg. Co., Troy, N. Y.

VARIABLE-SPEED TRANSMISSION.
Beeres Pulley Co., Columbus, Ind.

VARNISH.

Berry Brothers, Inc., Detroit, Mich.
Truscon Laboratories, The, Detroit, Mich.

VENEER CUTTING MACHINES.
Titus, E. E., Petersburg, Va.

VENTILATING APPARATUS.
Engineers' and Contractors'.
Allen Engr. & Mfg. Co., Savannah, Ga.
Buckeye Blower Co., Columbus, O.
Buffalo Forge Co., Buffalo, N. Y.

Mechanical.
Advance Company, Richmond, Ind.

VENTILATORS. (Roof.)
Edwards Mfg. Co., The Cincinnati, O.
Lenderking, Philip H., Baltimore, Md.
Robertson Co., H. H., Pittsburgh, Pa.
Schneidering, F. O., Columbus, O.

VISES.

Western Tool & Mfg. Co., Springfield, O.

WAGON LOADERS.

Austin Machinery Corp., Chicago, Ill.
Bonney Supply Co., Inc., Rochester, N. Y.
Hais Mfg. Co., Geo., New York, N. Y.
Link-Belt Co., Philadelphia, Pa.
Portable Mchry. Co., Passaic, N. J.

WASHING MACHINERY.
Ore and Phosphate.
Bailey-Leiby Co., Charleston, S. C.

Sand and Gravel.
Bonney Supply Co., Inc., Rochester, N. Y.
Link-Belt Co., Philadelphia, Pa.

WATCHMAN'S PORTABLE CLOCKS.
Chicago Watchman's Clock Wks., Chicago.
Eco Clock Co., Boston, Mass.
Newman Clock Co., New York, N. Y.

WATERPROOFING. (For Brick, Concrete, Granite, etc.)
Master Builders Co., The, Cleveland, O.
Sonneborn Sons, Inc., L., New York.
Texas Co., The, New York, N. Y.
Truscon Laboratories, The, Detroit, Mich.

WATER METER BOXES.
Jones Iron Works, Inc., Rock Hill, S. C.

WATER PURIFICATION.
Roberts Filter Mfg. Co., Darby, Pa.
Scaife & Sons Co., Wm. B., Pittsburgh.

WATER-SOFTENING APPARATUS.
(Purifying.)
American Water Softener Co., Phila.
Dodge Sales & Engr. Co., Mishawaka, Ind.
International Filter Co., Chicago, Ill.
Scaife & Sons Co., Wm. B., Pittsburgh.
Wayne Tank & Pump Co., Ft. Wayne, Ind.

WATER SUPPLY INSTALLATIONS.
Layne & Bowler Co., Memphis, Tenn.

WATER WELL SCREENS.
McEvoy & Co., J. H., Houston, Texas.

WATER-WORKS SUPPLIES AND APPLIANCES.
American C. I. Pipe Co., Birmingham.
Bourbon Copper & Brass Works Co., Cincinnati, O.
Coldwell-Wilcox Co., Newburgh, N. Y.
Columbian Iron Works, Chattanooga, Tenn.
Cook, A. D., Lawrenceburg, Ind.
Glamorgan Pipe & Fdry. Co., Lynchburg, Va.
Hamburg Roller Works, Hamburg, Berks County, Pa.
Michigan Pipe Co., Rav Cltv Mich.
Standard Wood Pipe Co., Williamsport, Pa.
U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J.
Wood & Co., R. D., Philadelphia, Pa.

WELDING.
Blaw-Knox Co., Pittsburgh, Pa.

WELDING APPARATUS.
Electric Arc.
General Electric Co., Schenectady, N. Y.
Oxy-Acetylene.
Kentucky Oxygen-Hydrogen Co., Louisville, Ky.

WELL CONTRACTORS. (Oil Artesian, etc.)
Cook, A. D., Lawrenceburg, Ind.
Hughes Specialty Well Drilling Co., Charleston, S. C.
Sydnor Pump & Well Co., Richmond, Va.
Va. Mchry. & Well Co., Richmond, Va.

WELL STRAINERS. (Oil Water & Gas.)
McEvoy & Co., J. H., Houston, Texas.

WELL SUPPLIES. (Oil Water & Gas.)
McEvoy & Co., J. H., Houston, Texas.

WELL TOOLS AND SUPPLIES.
Cook, A. D., Lawrenceburg, Ind.
Keystone Driller Co., Beaver Falls, Pa.

WEARBOARDS. (Steel.)
Midland Barge Co., Midland, Pa.

WHEELS AND AXLES.

Electric Wheel Co., Quincy, Ill.

WHEEL PRESSES.

Caldwell & Co., E. R., Bradford, Pa.

WINCHES.

Hadfield-Penfield Steel Co., Bucyrus, O.

WINDLASSES.

Hadfield-Penfield Steel Co., Bucyrus, O.

WINDOW FRAMES AND SASH. (Metal.)

Lupton's Sons Co., David, Phila., Pa.
Truscon Steel Co., Youngstown, O.

WINDOW GLASS.
American Window Glass Co., Pittsburgh.

WINDOW GUARDS.
Audubon Wire Cloth Co., Audubon, N. J.
Dow Co., Inc., The, Louisville, Ky.
Meyers Mfg. Co., Fred. J., Hamilton, O.
Stewart Iron Wks. Co., Inc., Cincinnati.

WIRE.
All Kinds.
Ryerson & Son, Jos. T., St. Louis and New York.

Barbed Wire, Etc.
American Steel & Wire Co., Chicago.
Youngstown Sheet & Tube Co., Youngstown, O.

Brass and Copper.
Chase Metal Works, Waterbury, Conn.

Fence.
Amer. Fence Constr. Co., New York.
Anchor Post Iron Works, New York, N. Y.

Flat and Round.
Roebbing's Sons Co., John A., Trenton, N. J.

Galvanized and Annealed.
American Steel & Wire Co., Chicago, Ill.

Telephone, Telegraph.
American Steel & Wire Co., Chicago, Ill.

Welding.
Roebbing's Sons Co., John A., Trenton, N. J.

WIRE CLOTH. (Iron, Steel, Brass, etc.)
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Caldwell & Son Co., H. W., Chicago.
Harrington & King Perforating Co., Chicago, Ill.
Ludlow-Saylor Wire Co., St. Louis, Mo.
New Jersey Wire Cloth Co., Trenton, N. J.
Wickwire-Spencer Steel Corp., Worcester, Mass.

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Cyclone Fence Co., Waukegan, Ill.
Dufur & Co., Baltimore, Md.
Dufur, Baggott & Co., Baltimore, Md.
New Jersey Wire Fence Co., Trenton, N. J.

WIRE-MAKING MACHINERY.
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WIRE NETTING.
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New Jersey Wire Cloth Co., Trenton, N. J.
Wickwire-Spencer Steel Corp., Worcester, Mass.

WIRE ROPE.
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Leschen & Sons Rope Co., A., St. Louis.
Williamsport Wire Rope Co., Williamsport, Pa.

WIRE ROPE CLIPS.
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Mal-Gra Cast Co., Cambridge City, Ind.

WIRE ROPE FITTINGS.
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Leschen & Sons Rope Co., A., St. Louis.

WIRE ROPE SLINGS.
Roebbing's Sons Co., John A., Trenton, N. J.

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Standard Wood Pipe Co., Williamsport, Pa.
Wyckoff & Son Co., A., Elmira, N. Y.

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Lane Mfg. Co., Montpelier, Vt.
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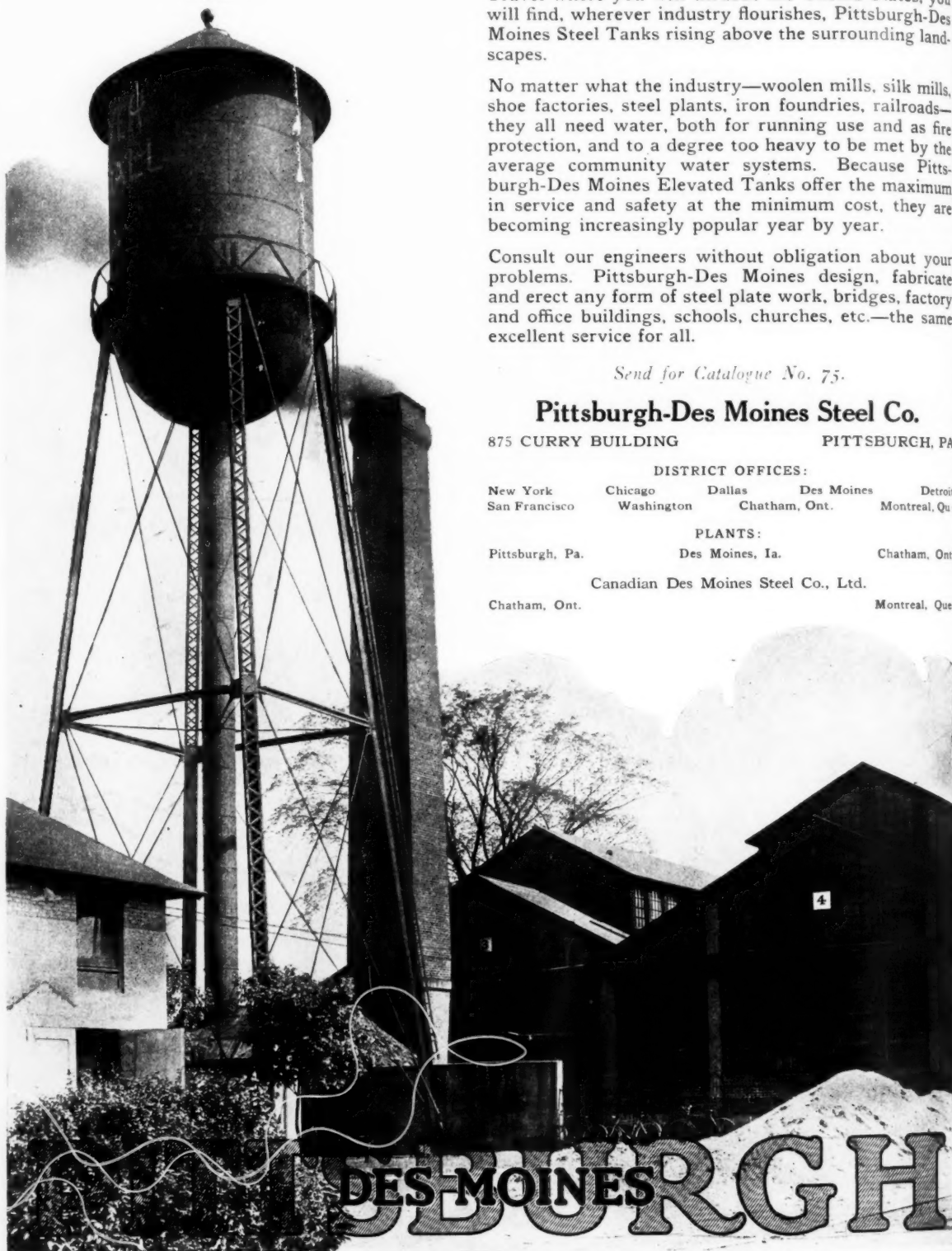
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